



# STIC Search Report

## Biotech-Chem Library

STIC Database Tracking Number: 188266

TO: Nita M Minnifield  
Location: rem-3c01/3c18  
Art Unit: 1645  
Wednesday, May 10, 2006  
Case Serial Number: 08/170344

From: Kristine Hensle  
Location: Biotech-Chem Library  
REM-1B69  
Phone: (571)272-4161

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### Search Notes

Examiner Minnifield,

See attached results. This packet is part 3 of 8.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Kristine Hensle  
Librarian  
STIC Biotech/Chem Library  
(571)272-4161

*Reviewed  
5/11/06  
nm*

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OM protein - protein search, using bw model

Run on: May 5, 2006, 02:25:57 ; Search time 20.7 Seconds  
(without alignments)  
35.946 Million cell updates/sec

Title: US-08-170-344-20  
Perfect score: 47  
Sequence: 1 TLGIVAPIC 9

Scoring table: BIOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 100 summaries

Database :  
1: /cgn2\_6/ptodata/1/1aa/5\_COMB.pep:\*  
2: /cgn2\_6/ptodata/1/1aa/6\_COMB.pep:\*  
3: /cgn2\_6/ptodata/1/1aa/H\_COMB.pep:\*  
4: /cgn2\_6/ptodata/1/1aa/PCITUS\_COMB.pep:\*  
5: /cgn2\_6/ptodata/1/1aa/RB\_COMB.pep:\*  
6: /cgn2\_6/ptodata/1/1aa/Backfilltest.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	43	91.5	9	2	US-08-948-378A-2
2	43	91.5	9	2	US-09-169-425C-2
3	43	91.5	9	2	US-08-197-48A-68
4	43	91.5	9	2	US-09-759-960-2
5	43	91.5	9	4	PCIT-US95-02121-68
6	43	91.5	10	2	US-09-000-003A-9
7	43	91.5	10	2	US-09-405-986A-10
8	43	91.5	11	2	US-09-169-425C-31
9	43	91.5	11	2	US-09-169-425C-33
10	43	91.5	11	2	US-09-759-960-31
11	43	91.5	11	2	US-09-759-960-33
12	43	91.5	12	2	US-08-948-378A-16
13	43	91.5	12	2	US-09-169-425C-16
14	43	91.5	12	2	US-09-759-960-16
15	43	91.5	13	2	US-08-948-378A-3
16	43	91.5	13	2	US-08-948-378A-4
17	43	91.5	13	2	US-08-948-378A-19
18	43	91.5	13	2	US-08-159-339A-1167
19	43	91.5	13	2	US-09-169-425C-3
20	43	91.5	13	2	US-09-169-425C-4
21	43	91.5	13	2	US-09-169-425C-19
22	43	91.5	13	2	US-09-759-960-3
23	43	91.5	13	2	US-09-759-960-4
24	43	91.5	13	2	US-09-759-960-19
25	43	91.5	14	2	US-09-169-425C-32
26	43	91.5	14	2	US-09-759-960-32
27	43	91.5	15	2	US-08-159-339A-1168

28	43	91.5	16	2	US-09-169-425C-25
29	43	91.5	16	2	US-09-759-960-25
30	43	91.5	19	2	US-09-980-523A-18
31	43	91.5	20	2	US-08-075-541D-50
32	43	91.5	21	1	US-08-934-915-50
33	43	91.5	21	1	US-08-934-915-157
34	43	91.5	21	2	US-09-980-177A-76
35	43	91.5	26	2	US-08-075-541D-40
36	43	91.5	28	2	US-09-486-394-5
37	43	91.5	30	1	US-08-934-915-54
38	43	91.5	38	2	US-08-948-378A-6
39	43	91.5	38	2	US-09-169-425C-6
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52	43	91.5	98	2	US-10-201-764-19
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58	43	91.5	172	2	US-08-860-165-14
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62	43	91.5	198	2	US-10-267-311-35
63	43	91.5	220	2	US-09-485-885-1
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65	43	91.5	239	2	US-09-485-885-12
66	43	91.5	253	1	US-08-459-818-20
67	43	91.5	253	1	US-08-889-666-60
68	43	91.5	253	1	US-08-465-078-20
69	43	91.5	253	1	US-08-725-776-20
70	43	91.5	253	1	US-08-488-062-20
71	43	91.5	263	1	US-08-117-083-9
72	43	91.5	266	2	US-08-860-165-10
73	43	91.5	266	2	US-09-359-382-10
74	43	91.5	266	2	US-09-367-309A-1
75	43	91.5	287	2	US-09-501-097A-25
76	43	91.5	295	2	US-09-613-303-33
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78	43	91.5	324	2	US-09-613-303-25
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80	43	91.5	371	2	US-09-485-885-6
81	43	91.5	390	2	US-09-485-885-14
82	43	91.5	420	2	US-09-501-097A-22
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85	43	91.5	639	2	US-09-613-303-17
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88	43	91.5	647	2	US-09-613-303-53
89	43	91.5	647	2	US-10-267-311-53
90	43	91.5	648	2	US-09-613-303-29
91	43	91.5	648	2	US-10-267-311-29
92	43	91.5	711	2	US-09-613-303-41
93	43	91.5	711	2	US-10-267-311-41
94	43	91.5	723	2	US-09-501-097A-20
95	43	91.5	723	2	US-09-613-303-45
96	43	91.5	724	2	US-10-267-311-45
97	43	91.5	9	2	US-10-365-908-21
98	38	80.9	435	2	US-09-489-039A-8822
99	38	80.9	36	2	US-09-000-094-30
100	37	78.7	36	2	US-09-000-094-30

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Sequence 3, Appl

101	37	78.7	36	2	US-10-011-749-30	Sequence 30, Appl	174	32	68.1	1167	2	US-09-008-097-6	Sequence 6, Appl
102	37	78.7	375	2	US-09-000-094-52	Sequence 22, Appl	175	32	68.1	1167	2	US-09-472-667-6	Sequence 6, Appl
103	37	78.7	375	2	US-10-011-749-22	Sequence 22, Appl	176	32	68.1	1168	2	US-09-474-076-2	Sequence 2, Appl
104	37	78.7	465	2	US-09-000-094-24	Sequence 24, Appl	177	32	68.1	1168	2	US-09-472-667-11	Sequence 11, Appl
105	37	78.7	465	2	US-10-011-749-24	Sequence 24, Appl	178	32	68.1	1168	2	US-10-201-000-2	Sequence 2, Appl
106	37	78.7	601	1	US-08-606-288-7	Sequence 7, Appl	179	31	66.0	28	2	US-10-144-929-158	Sequence 158, App
107	37	78.7	601	1	US-08-606-288-10	Sequence 10, Appl	180	31	66.0	48	2	US-10-144-929-186	Sequence 186, App
108	37	78.7	601	2	US-09-347-483-7	Sequence 7, Appl	181	31	66.0	101	2	US-09-270-767-39735	Sequence 39735, A
109	37	78.7	601	2	US-09-347-483-10	Sequence 10, Appl	182	31	66.0	101	2	US-09-270-767-54952	Sequence 8076, Ap
110	37	78.7	1587	2	US-09-000-094-46	Sequence 46, Appl	183	31	66.0	139	2	US-09-543-681A-8076	Sequence 7541, Ap
111	37	78.7	1587	2	US-10-011-749-46	Sequence 46, Appl	184	31	66.0	175	2	US-09-328-352-7541	Sequence 106, App
112	36	76.6	8	2	US-09-169-425C-26	Sequence 26, Appl	185	31	66.0	235	2	US-09-144-929-106	Sequence 58, App
113	36	76.6	8	2	US-09-759-960-26	Sequence 26, Appl	186	31	66.0	235	2	US-09-769-787-58	Sequence 59, Appl
114	35	74.5	412	2	US-09-311-021-42	Sequence 42, Appl	187	31	66.0	225	2	US-09-769-787-59	Sequence 59, Appl
115	35	74.5	458	2	US-09-328-352-4741	Sequence 4741, Ap	188	31	66.0	249	2	US-09-107-532A-7142	Sequence 7142, Ap
116	35	74.5	711	2	US-09-134-000C-5470	Sequence 5470, Ap	189	31	66.0	254	2	US-09-372-422A-34	Sequence 34, Appl
117	34	72.3	8	1	US-08-787-547-107	Sequence 107, Ap	190	31	66.0	280	2	US-09-949-016-10934	Sequence 10934, A
118	34	72.3	8	2	US-09-169-425C-20	Sequence 20, Appl	191	31	66.0	293	2	US-09-270-767-35191	Sequence 35191, A
119	34	72.3	8	2	US-08-704-344-21	Sequence 21, Appl	192	31	66.0	351	2	US-09-370-767-50408	Sequence 50408, A
120	34	72.3	8	2	US-09-759-960-20	Sequence 20, Appl	193	31	66.0	351	2	US-09-540-236-2556	Sequence 2556, Ap
121	34	72.3	8	2	US-09-601-729-272	Sequence 272, Appl	194	31	66.0	413	2	US-09-107-443-4507	Sequence 4507, Ap
122	34	72.3	9	2	US-09-169-425C-21	Sequence 21, Appl	195	31	66.0	452	2	US-09-252-929A-15116	Sequence 15116, A
123	34	72.3	9	2	US-09-169-425C-27	Sequence 27, Appl	196	31	66.0	472	2	US-09-489-039A-8418	Sequence 8418, Ap
124	34	72.3	9	2	US-08-197-484-21	Sequence 70, Appl	197	31	66.0	503	2	US-09-583-110-4277	Sequence 4277, Ap
125	34	72.3	9	2	US-09-759-960-21	Sequence 27, Appl	198	31	66.0	503	2	US-09-769-787-74	Sequence 74, Appl
126	34	72.3	9	2	US-09-759-960-27	Sequence 27, Appl	199	31	66.0	523	2	US-09-270-767-43156	Sequence 43156, A
127	34	72.3	9	2	US-10-365-908-50	Sequence 50, Appl	200	31	66.0	536	2	US-09-107-433-2945	Sequence 2945, Ap
128	34	72.3	9	4	PCT-US95-02121-70	Sequence 70, Appl	201	31	66.0	540	2	US-09-252-929A-18967	Sequence 18967, A
129	34	72.3	10	2	US-08-159-339A-572	Sequence 572, Appl	202	31	66.0	575	1	US-08-403-866-7	Sequence 7, Appl
130	34	72.3	10	2	US-10-365-908-12	Sequence 12, Appl	203	31	66.0	618	2	US-08-595-553A-2	Sequence 2, Appl
131	34	72.3	10	2	US-10-365-908-46	Sequence 46, Appl	204	31	66.0	618	2	US-09-640-198D-4	Sequence 4, Appl
132	34	72.3	59	2	US-09-390-027-6	Sequence 6, Appl	205	31	66.0	618	2	US-09-895-007-2	Sequence 2, Appl
133	34	72.3	155	2	US-08-716-190-8	Sequence 8, Appl	206	31	66.0	643	1	US-08-245-511-47	Sequence 47, Appl
134	34	72.3	458	2	US-09-568-470A-1	Sequence 1, Appl	207	31	66.0	643	1	US-08-600-993A-47	Sequence 47, Appl
135	34	72.3	460	2	US-09-457-046B-71	Sequence 71, Appl	208	31	66.0	660	2	US-09-583-110-3976	Sequence 3976, Ap
136	34	72.3	460	2	US-09-866-570B-8	Sequence 71, Appl	209	31	66.0	1199	4	PCT-US91-09422-17	Sequence 17, Appl
137	34	72.3	262	2	US-09-543-681A-5467	Sequence 5467, Ap	210	31	66.0	1996	4	US-08-041-538-2	Sequence 2, Appl
138	33	70.2	262	2	US-09-270-767-57404	Sequence 57404, A	211	31	66.0	1199	1	US-08-463-642-2	Sequence 2, Appl
139	33	70.2	294	2	US-09-270-767-42136	Sequence 42136, A	212	31	66.0	1199	1	US-08-455-602-2	Sequence 2, Appl
140	33	70.2	339	2	US-09-949-016-6274	Sequence 6274, Ap	213	31	66.0	1199	1	US-08-465-157-2	Sequence 2, Appl
141	33	70.2	360	2	US-09-020-743-2	Sequence 2, Appl	214	31	66.0	1219	4	US-08-687-289A-6	Sequence 6, Appl
142	33	70.2	391	2	US-09-949-016-9863	Sequence 9863, Ap	215	31	66.0	1219	2	US-09-435-897-6	Sequence 6, Appl
143	33	70.2	449	2	US-09-328-352-7512	Sequence 7512, Ap	216	31	66.0	46	2	US-09-973-278-182	Sequence 182, Appl
144	33	70.2	1180	9	US-08-726-214-12	Sequence 12, Appl	217	30	63.8	47	2	US-09-227-357-174	Sequence 174, App
145	32	68.1	9	2	US-08-660-092-125	Sequence 125, App	218	30	63.8	70	2	US-09-248-796A-21327	Sequence 21327, A
146	32	68.1	9	2	US-09-160-513-125	Sequence 74, App	219	30	63.8	80	2	US-08-637-759B-472	Sequence 472, App
147	32	68.1	9	2	US-10-365-908-74	Sequence 74, App	220	30	63.8	80	2	US-08-871-355A-472	Sequence 472, App
148	32	68.1	92	2	US-09-902-540-10408	Sequence 10408, A	221	30	63.8	80	2	US-09-301-945-472	Sequence 472, App
149	32	68.1	103	2	US-09-605-703B-728	Sequence 728, App	222	30	63.8	107	2	US-09-270-767-48581	Sequence 48581, A
150	32	68.1	107	2	US-09-270-767-40343	Sequence 40343, A	223	30	63.8	140	2	US-09-949-016-6789	Sequence 6789, Ap
151	32	68.1	117	2	US-09-270-767-55559	Sequence 55559, A	224	30	63.8	154	2	US-08-716-190-6	Sequence 6, Appl
152	32	68.1	114	2	US-09-605-703B-726	Sequence 726, App	225	30	63.8	157	2	US-08-716-190-4	Sequence 4, Appl
153	32	68.1	188	2	US-09-489-039A-7704	Sequence 7704, Ap	226	30	63.8	159	2	US-08-716-190-10	Sequence 10, Appl
154	32	68.1	203	2	US-09-399-913-12	Sequence 12, Appl	227	30	63.8	161	2	US-08-716-190-2	Sequence 2, Appl
155	32	68.1	203	2	US-09-298-731-12	Sequence 12, Appl	228	30	63.8	164	2	US-09-949-016-7480	Sequence 7480, Ap
156	32	68.1	233	2	US-09-350-614-12	Sequence 12, Appl	229	30	63.8	165	2	US-10-101-464A-559	Sequence 539, App
157	32	68.1	239	2	US-09-270-767-32590	Sequence 32590, A	230	30	63.8	172	2	US-10-101-464A-536	Sequence 536, App
158	32	68.1	245	2	US-09-270-767-47807	Sequence 47807, A	231	30	63.8	176	2	US-09-198-452A-1032	Sequence 1032, Ap
159	32	68.1	245	2	US-09-399-913-4	Sequence 4, Appl	232	30	63.8	182	2	US-09-438-185A-962	Sequence 962, App
160	32	68.1	245	2	US-09-298-731-4	Sequence 4, Appl	233	30	63.8	188	2	US-09-710-279-2718	Sequence 2718, Ap
161	32	68.1	245	2	US-09-350-614-4	Sequence 4, Appl	234	30	63.8	189	2	US-09-248-796A-16820	Sequence 16820, A
162	32	68.1	249	2	US-09-248-796A-18315	Sequence 18315, A	235	30	63.8	197	2	US-09-605-703B-2814	Sequence 2814, Ap
163	32	68.1	333	1	US-08-148-215A-4	Sequence 4, Appl	236	30	63.8	198	2	US-09-334-001C-3313	Sequence 3313, Ap
164	32	68.1	333	2	US-09-170-496D-16	Sequence 16, Appl	237	30	63.8	203	2	US-09-399-913-49	Sequence 206, App
165	32	68.1	333	2	US-09-170-496D-172	Sequence 172, App	238	30	63.8	223	2	US-09-399-913-51	Sequence 49, Appl
166	32	68.1	337	2	US-09-543-681A-4839	Sequence 4839, App	239	30	63.8	233	2	US-09-350-614-51	Sequence 51, Appl
167	32	68.1	349	2	US-09-489-039A-10257	Sequence 10257, A	240	30	63.8	233	2	US-09-350-614-51	Sequence 51, Appl
168	32	68.1	517	2	US-09-489-039A-10153	Sequence 10153, A	241	30	63.8	233	2	US-09-350-614-51	Sequence 51, Appl
169	32	68.1	604	2	US-09-008-097-4	Sequence 4, Appl	242	30	63.8	234	2	US-09-502-540-9819	Sequence 4819, Ap
170	32	68.1	604	2	US-09-472-667-4	Sequence 4, Appl	243	30	63.8	244	2	US-09-583-110-4058	Sequence 4058, Ap
171	32	68.1	1147	2	US-09-949-016-8861	Sequence 8861, Ap	244	30	63.8	241	2	US-09-270-767-43130	Sequence 43130, A
172	32	68.1	1147	2	US-09-949-016-8862	Sequence 8862, Ap	245	30	63.8	243	2	US-09-107-532A-4665	Sequence 4665, Ap
173	32	68.1	1165	1	US-08-240-357-2	Sequence 2, Appl	246	30	63.8	243	2		

247	30	63.8	248	2	US-09-134-000C-6371	Sequence 6371, Ap	320	29	61.7	369	2	US-09-270-767-45570	Sequence 45570, A
248	30	63.8	267	2	US-09-270-767-32883	Sequence 32883, A	321	29	61.7	372	1	US-08-196-218-33	Sequence 33, Appl
249	30	63.8	267	2	US-09-270-767-48100	Sequence 48100, A	322	29	61.7	372	1	US-08-681-953-33	Sequence 33, Appl
250	30	63.8	281	2	US-09-270-767-62321	Sequence 62321, A	323	29	61.7	375	2	US-09-543-681A-4213	Sequence 4213, Ap
251	30	63.8	284	2	US-09-902-540-13364	Sequence 13364, A	324	29	61.7	378	2	US-09-902-540-16775	Sequence 16775, A
252	30	63.8	440	2	US-09-902-540-10011	Sequence 10011, A	325	29	61.7	401	2	US-09-489-039A-10007	Sequence 10007, A
253	30	63.8	444	2	US-09-489-039A-9750	Sequence 9750, Ap	326	29	61.7	408	2	US-09-270-767-60172	Sequence 60172, A
254	30	63.8	451	2	US-09-712-363-171	Sequence 171, App	327	29	61.7	416	2	US-09-543-681A-5455	Sequence 5455, Ap
255	30	63.8	482	2	US-09-134-000C-4584	Sequence 4584, Ap	328	29	61.7	440	2	US-10-029-180-124	Sequence 124, App
256	30	63.8	487	2	US-09-107-532A-6319	Sequence 6319, Ap	329	29	61.7	441	2	US-09-591-779A-46	Sequence 46, App
257	30	63.8	492	2	US-09-270-767-46705	Sequence 46705, A	330	29	61.7	442	2	US-09-489-039A-12384	Sequence 12384, A
258	30	63.8	492	2	US-09-252-991A-24376	Sequence 24376, A	331	29	61.7	443	2	US-09-489-039A-11069	Sequence 11069, A
259	30	63.8	662	2	US-09-955-732A-13	Sequence 13, Appl	332	29	61.7	444	2	US-09-328-352-5249	Sequence 123, App
259	30	63.8	737	2	US-09-949-016-6800	Sequence 6800, Ap	333	29	61.7	451	2	US-09-489-039A-12823	Sequence 12823, A
260	30	63.8	762	2	US-09-252-991A-16872	Sequence 16872, A	334	29	61.7	455	2	US-09-248-796A-16498	Sequence 588, App
261	30	63.8	778	2	US-09-710-279-2020	Sequence 2020, Ap	335	29	61.7	461	2	US-09-303-518D-586	Sequence 586, App
262	30	63.8	801	2	US-09-134-001C-3105	Sequence 3105, Ap	336	29	61.7	461	2	US-09-303-518D-588	Sequence 588, App
263	30	63.8	808	2	US-09-826-508-347	Sequence 347, App	337	29	61.7	470	2	US-09-328-352-6912	Sequence 6912, Ap
264	30	63.8	878	2	US-08-486-270-2	Sequence 2, Appl	338	29	61.7	471	2	US-09-955-732A-21	Sequence 21, Appl
265	30	63.8	906	1	US-08-367-264-2	Sequence 2, Appl1	339	29	61.7	479	2	US-09-107-433-4772	Sequence 4772, Ap
266	30	63.8	906	2	US-08-153-757-2	Sequence 2, Appl1	340	29	61.7	485	2	US-09-489-039A-9830	Sequence 9830, Ap
267	30	63.8	906	2	US-09-459-715-2	Sequence 2, Appl1	341	29	61.7	493	2	US-09-543-681A-7520	Sequence 7520, Ap
268	30	63.8	1056	2	US-08-687-289A-7	Sequence 7, Appl1	342	29	61.7	494	2	US-09-489-039A-10060	Sequence 10060, A
269	30	63.8	1056	1	US-08-687-289A-8	Sequence 8, Appl1	343	29	61.7	504	2	US-09-489-039A-8489	Sequence 8489, Ap
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271	30	63.8	1056	2	US-09-435-897-7	Sequence 8, Appl1	345	29	61.7	513	2	US-08-246-583-2	Sequence 2, Appl1
272	30	63.8	1056	2	US-09-435-897-8	Sequence 8, Appl1	346	29	61.7	527	1	US-08-246-583-2	Sequence 7509, Ap
273	30	63.8	1075	2	US-09-252-991A-18387	Sequence 18387, A	347	29	61.7	537	2	US-09-949-016-7509	Sequence 5, Appl1
274	30	63.8	1104	2	US-10-104-047-2506	Sequence 2506, Ap	348	29	61.7	538	1	US-08-933-227-5	Sequence 4, Appl1
275	30	63.8	1125	2	US-09-949-016-10194	Sequence 10194, A	349	29	61.7	538	2	US-09-636-791A-4	Sequence 1186, Ap
276	30	63.8	1194	2	US-08-538-526-1	Sequence 6801, Ap	350	29	61.7	538	2	US-08-444-994-11	Sequence 11, Appl
277	30	63.8	1210	2	US-09-949-016-6801	Sequence 24, Appl	351	29	61.7	540	2	US-09-949-016-8190	Sequence 8190, Ap
278	30	63.8	1276	1	US-08-222-616-24	Sequence 24, Appl	352	29	61.7	545	2	US-09-270-767-61684	Sequence 10752, A
279	30	63.8	1276	2	US-08-446-648-24	Sequence 24, Appl	353	29	61.7	555	2	US-09-489-039A-10752	Sequence 94, Appl
280	30	63.8	1276	2	US-09-982-610-24	Sequence 24, Appl	354	29	61.7	555	2	US-09-328-352-6465	Sequence 6465, Ap
281	30	63.8	1276	4	PCR-US95-04228-24	Sequence 6553, Ap	355	29	61.7	575	2	US-09-477-982-92-4	Sequence 20176, A
282	30	63.8	1323	2	US-09-949-016-6553	Sequence 9942, Ap	356	29	61.7	582	2	US-09-248-796A-20716	Sequence 44718, A
283	30	63.8	1435	2	US-09-949-016-9942	Sequence 9943, Ap	357	29	61.7	585	2	US-09-270-767-44718	Sequence 1556, Ap
284	30	63.8	1435	2	US-09-949-016-9943	Sequence 9944, Ap	358	29	61.7	598	2	US-09-710-279-1596	Sequence 4938, Ap
285	30	63.8	1435	2	US-09-949-016-9944	Sequence 9944, Ap	359	29	61.7	659	2	US-09-955-732A-2	Sequence 4938, Ap
286	30	63.8	1551	2	US-09-231-899-73	Sequence 73, Appl	360	29	61.7	690	2	US-09-134-001C-4938	Sequence 28808, A
287	29	61.7	9	1	US-08-748-021-43	Sequence 43, Appl	361	29	61.7	694	2	US-09-252-991A-28808	Sequence 51, Appl
288	29	61.7	9	2	US-08-974-297-43	Sequence 28, Appl	362	29	61.7	722	1	US-08-158-232-51	Sequence 51, Appl
289	29	61.7	11	2	US-09-169-425C-28	Sequence 4584, Ap	363	29	61.7	722	1	US-08-611-928-51	Sequence 10, Appl
290	29	61.7	70	2	US-09-543-681A-4584	Sequence 4584, Ap	364	29	61.7	722	1	US-09-173-891-51	Sequence 33036, A
291	29	61.7	74	2	US-09-513-999C-4646	Sequence 4646, Ap	365	29	61.7	722	2	US-09-853-533A-10	Sequence 33036, A
292	29	61.7	131	2	US-09-621-976-5175	Sequence 5175, Ap	366	29	61.7	722	2	US-09-270-767-48358	Sequence 48358, A
293	29	61.7	131	2	US-09-621-976-5175	Sequence 7697, Ap	367	29	61.7	734	2	US-09-270-767-48358	Sequence 7, Appl1
294	29	61.7	134	2	US-09-248-796A-24572	Sequence 24572, A	368	29	61.7	773	2	US-10-033-301-7	Sequence 18375, A
295	29	61.7	141	2	US-09-605-703B-2480	Sequence 2480, Ap	369	29	61.7	830	2	US-09-252-991A-18375	Sequence 16, Appl
296	29	61.7	143	2	US-09-270-767-33298	Sequence 33298, A	370	29	61.7	861	2	US-08-374-834-16	Sequence 29, Appl
297	29	61.7	143	2	US-09-270-767-33298	Sequence 48515, A	371	29	61.7	869	1	US-08-644-271-29	Sequence 33, Appl
298	29	61.7	143	2	US-09-270-767-48515	Sequence 4029, Ap	372	29	61.7	869	1	US-09-077-955-33	Sequence 8, Appl1
299	29	61.7	144	2	US-09-107-532A-4029	Sequence 25575, A	373	29	61.7	869	2	US-09-715-249-8	Sequence 2, Appl1
300	29	61.7	175	2	US-09-252-991A-25575	Sequence 19900, A	374	29	61.7	869	2	US-09-358-383C-2	Sequence 1, Appl1
301	29	61.7	213	2	US-09-252-991A-19900	Sequence 3745, Ap	375	29	61.7	896	2	US-09-965-830-2	Sequence 11, Appl1
302	29	61.7	219	2	US-09-540-236-3745	Sequence 36478, Ap	376	29	61.7	896	2	US-10-016-283-33	Sequence 11, Appl1
303	29	61.7	234	2	US-09-270-767-36478	Sequence 51695, A	377	29	61.7	896	2	PCR-US95-04910-14	Sequence 20, Appl
304	29	61.7	234	2	US-09-270-767-51695	Sequence 51695, A	378	29	61.7	995	4	US-09-336-663A-20	Sequence 2, Appl1
305	29	61.7	252	2	US-09-134-000C-522A	Sequence 28094, A	379	29	61.7	1082	2	US-09-600-776-2	Sequence 2, Appl1
306	29	61.7	255	2	US-09-252-991A-28094	Sequence 18233, A	380	29	61.7	1083	2	US-09-343-494-1	Sequence 1, Appl1
307	29	61.7	258	2	US-09-248-796A-18233	Sequence 8233, Ap	381	29	61.7	1083	2	US-09-677-682B-11	Sequence 11, Appl
308	29	61.7	263	2	US-09-489-039A-8239	Sequence 54, Appl	382	29	61.7	1083	2	US-09-351-224E-11	Sequence 11, Appl
309	29	61.7	282	2	US-09-360-376-54	Sequence 3, Appl1	383	29	61.7	1083	2	US-10-160-224-1	Sequence 1, Appl1
310	29	61.7	283	2	US-08-992-035A-3	Sequence 53, Appl	384	29	61.7	1263	2	US-09-677-682B-11	Sequence 11, Appl
311	29	61.7	283	2	US-09-360-376-53	Sequence 44350, A	385	29	61.7	1263	2	US-09-882-694B-11	Sequence 11, Appl
312	29	61.7	299	2	US-09-270-767-44350	Sequence 4633, Ap	386	29	61.7	1263	2	US-09-917-254-98	Sequence 98, Appl1
313	29	61.7	323	2	US-09-134-001C-4635	Sequence 11, Appl	387	29	61.7	1575	2	US-08-494-168-2	Sequence 2, Appl1
314	29	61.7	329	2	US-09-927-738-11	Sequence 7111, Ap	388	29	61.7	1594	1	US-08-188-582-14	Sequence 14, Appl
315	29	61.7	331	2	US-09-543-681A-7111	Sequence 11, Appl	389	29	61.7	1872	1	US-08-646-715-14	Sequence 14, Appl
316	29	61.7	352	1	US-08-483-926A-11	Sequence 12, Appl	390	29	61.7	1872	1		
317	29	61.7	352	1	US-08-737-045-12	Sequence 14261, A	391	29	61.7	1872	1		
318	29	61.7	358	2	US-09-489-039A-14261	Sequence 68, Appl	392	29	61.7	1872	1		
319	29	61.7	359	2	US-10-029-180-68	Sequence 68, Appl	392	29	61.7	1872	1		

393	29	61.7	1884	2	US-09-949-016-7154	Sequence 7154, Ap	466	28	59.6	306	1	US-08-738-975-7	Sequence 7, Appl1
394	29	61.7	1893	1	US-08-188-582-11	Sequence 11, Appl	467	28	59.6	306	1	US-08-728-626-7	Sequence 7, Appl1
395	29	61.7	1893	1	US-08-646-715-11	Sequence 11, Appl	468	28	59.6	307	2	US-08-808-599A-7	Sequence 7, Appl1
396	28	59.6	9	1	US-08-748-021-17	Sequence 17, Appl	469	28	59.6	307	2	US-09-949-016-1132	Sequence 11432, A
397	28	59.6	9	2	US-08-974-297-17	Sequence 17, Appl	470	28	59.6	310	2	US-09-198-452A-864	Sequence 864, App
398	28	59.6	9	2	US-08-159-339A-83	Sequence 83, Appl	471	28	59.6	310	2	US-09-438-185A-809	Sequence 809, App
399	28	59.6	9	2	US-09-169-425C-22	Sequence 22, Appl	472	28	59.6	313	2	US-09-336-643A-81	Sequence 81, Appl
400	28	59.6	9	2	US-08-660-092-74	Sequence 74, Appl	473	28	59.6	313	2	US-09-561-763-8	Sequence 8, Appl1
401	28	59.6	9	2	US-08-660-092-182	Sequence 182, Appl	474	28	59.6	313	2	US-09-431-367B-8	Sequence 8, Appl1
402	28	59.6	9	2	US-09-160-513-182	Sequence 74, Appl	475	28	59.6	317	2	US-09-248-796A-20634	Sequence 20634, A
403	28	59.6	9	2	US-09-160-513-182	Sequence 182, Appl	476	28	59.6	322	2	US-09-252-991A-24470	Sequence 24470, A
404	28	59.6	9	2	US-09-759-960-22	Sequence 22, Appl	477	28	59.6	323	2	US-09-902-540-15053	Sequence 15053, A
405	28	59.6	9	2	US-10-365-908-14	Sequence 14, Appl	478	28	59.6	325	2	US-09-252-991A-11131	Sequence 17131, A
406	28	59.6	9	2	US-10-365-908-64	Sequence 64, Appl	479	28	59.6	325	2	US-09-602-787A-544	Sequence 544, App
407	28	59.6	9	2	US-10-365-908-103	Sequence 103, Appl	480	28	59.6	326	2	US-09-438-185A-144	Sequence 164, App
408	28	59.6	10	2	US-10-365-908-62	Sequence 62, Appl	481	28	59.6	328	2	US-08-879-337-1	Sequence 1, Appl1
409	28	59.6	10	2	US-10-365-908-99	Sequence 99, Appl	482	28	59.6	328	2	US-08-758-621-10	Sequence 10, Appl
410	28	59.6	52	2	US-09-513-999C-7650	Sequence 750, Ap	483	28	59.6	326	2	US-09-107-858-10	Sequence 10, Appl
411	28	59.6	73	2	US-09-206-551-74	Sequence 34, Appl	484	28	59.6	326	2	US-09-579-174-10	Sequence 10, Appl
412	28	59.6	73	2	US-09-206-551-38	Sequence 38, Appl	485	28	59.6	326	2	US-09-489-039A-8789	Sequence 8789, Ap
413	28	59.6	73	2	US-09-206-551-43	Sequence 43, Appl	486	28	59.6	317	2	US-09-248-796A-17829	Sequence 17829, A
414	28	59.6	73	2	US-09-248-796A-22754	Sequence 22754, A	487	28	59.6	335	2	US-09-328-352-5819	Sequence 5819, App
415	28	59.6	83	2	US-09-540-236-1836	Sequence 3836, Ap	488	28	59.6	406	2	US-09-851-588-6	Sequence 6, Appl1
416	28	59.6	84	2	US-09-583-110-2863	Sequence 2863, Ap	489	28	59.6	407	2	US-08-861-774A-28	Sequence 28, Appl
417	28	59.6	87	2	US-09-191-468-39	Sequence 39, Appl	490	28	59.6	409	1	US-08-809-740A-5	Sequence 5, Appl1
418	28	59.6	88	2	US-09-107-433-3652	Sequence 3652, Ap	491	28	59.6	415	2	US-09-252-991A-27227	Sequence 27227, A
419	28	59.6	103	2	US-09-227-357-562	Sequence 562, App	492	28	59.6	421	2	US-09-252-991A-32440	Sequence 32440, A
420	28	59.6	103	2	US-09-973-278-562	Sequence 562, App	493	28	59.6	423	2	US-09-656-002-2	Sequence 2, Appl1
421	28	59.6	105	2	US-09-107-433-4941	Sequence 4941, App	494	28	59.6	426	2	US-09-489-039A-10351	Sequence 10351, A
422	28	59.6	107	2	US-09-248-796A-23815	Sequence 23815, A	495	28	59.6	428	2	US-09-538-092-201	Sequence 201, App
423	28	59.6	111	2	US-09-198-452A-1158	Sequence 1158, Ap	496	28	59.6	420	2	US-09-248-796A-16772	Sequence 16772, A
424	28	59.6	115	2	US-09-247-155-124	Sequence 124, App	497	28	59.6	432	2	US-10-012-231A-275	Sequence 275, App
425	28	59.6	115	2	US-09-903-190-124	Sequence 124, App	498	28	59.6	432	2	US-10-015-389A-275	Sequence 275, App
426	28	59.6	118	2	US-10-104-047-2855	Sequence 2855, App	499	28	59.6	432	2	US-10-015-393A-275	Sequence 275, App
427	28	59.6	124	2	US-09-252-991A-30339	Sequence 30339, A	500	28	59.6	432	2	US-10-011-833A-275	Sequence 275, App
428	28	59.6	126	2	US-09-540-236-2643	Sequence 2643, Ap	501	28	59.6	432	2	US-10-006-041A-275	Sequence 275, App
429	28	59.6	126	2	US-09-902-540-16783	Sequence 16783, A	502	28	59.6	432	2	US-10-012-064A-425	Sequence 425, App
430	28	59.6	129	2	US-10-178-213-14	Sequence 14, Appl	503	28	59.6	432	2	US-09-711-641A-412	Sequence 412, App
431	28	59.6	133	2	US-09-252-991A-32477	Sequence 32477, A	504	28	59.6	432	2	US-09-919-039-1123	Sequence 1123, App
432	28	59.6	162	2	US-10-101-464A-687	Sequence 687, App	505	28	59.6	435	2	US-09-008-671A-6	Sequence 6, Appl1
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547	28	59.6	708	2	US-09-903-603A-69	Sequence 69, Appl	620	27	57.4	24	2	US-09-721-108-281	Sequence 281, App
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688	27	57.4	138	2	US-10-012-542-445	Sequence 445, App	761	27	57.4	298	2	US-09-556-877-123	Sequence 123, App
689	27	57.4	138	2	US-10-115-123-244	Sequence 244, App	762	27	57.4	298	2	US-09-556-877-129	Sequence 129, App
690	27	57.4	138	2	US-10-115-123-445	Sequence 445, App	763	27	57.4	298	2	US-09-620-412C-123	Sequence 123, App
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698	27	57.4	167	2	US-09-438-185A-148	Sequence 148, App	771	27	57.4	306	2	US-09-602-777A-408	Sequence 408, App
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714	27	57.4	193	2	US-09-902-540-11788	Sequence 11788, A	787	27	57.4	376	2	US-09-328-352-5345	Sequence 5345, App
715	27	57.4	196	2	US-09-543-681A-7659	Sequence 7659, App	788	27	57.4	376	2	US-09-721-870-22	Sequence 22, App1
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993 26 55.3 70 2 US-09-910-009A-43 Sequence 53, Appl  
994 26 55.3 70 2 US-09-910-009A-198 Sequence 198, App  
995 26 55.3 71 2 US-09-248-766A-23335 Sequence 2335, A  
996 26 55.3 71 2 US-09-832-129-46 Sequence 46, Appl  
997 26 55.3 72 2 US-09-270-767-58481 Sequence 58481, A  
998 26 55.3 74 1 US-08-997-080-110 Sequence 110, App  
999 26 55.3 74 1 US-08-997-362-110 Sequence 110, App  
1000 26 55.3 74 2 US-09-095-855-110 Sequence 110, App

## ALIGNMENTS

RESULT 1  
US-08-948-378A-2  
; Sequence 2, Application US/08948378A  
; Patent No. 6013258  
; GENERAL INFORMATION:  
; APPLICANT: Urban, Robert G.  
; APPLICANT: Chiciz, Roman M.  
; APPLICANT: Collins, Edward J.  
; APPLICANT: Hedley, Mary Lynn  
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM  
; TITLE OF INVENTION: THE HPV E7 PROTEIN  
; NUMBER OF SEQUENCES: 19  
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; ADDRESSEE: Fish & Richardson, P.C.  
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; CITY: Boston  
; STATE: MA  
; COUNTRY: US  
; ZIP: 02110-2804  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: Windows95  
; SOFTWARE: FastSeq for Windows Version 2.0  
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; TELEX: 200154  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 9 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide

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Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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RESULT 2  
US-09-169-425C-2  
; Sequence 2, Application US/09169425C  
; Patent No. 6183746  
; GENERAL INFORMATION:  
; APPLICANT: Urban, Robert G.  
; APPLICANT: Chiciz, Roman M.  
; APPLICANT: Collins, Edward J.  
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; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
; TITLE OF INVENTION: PROTEIN  
; NUMBER OF SEQUENCES: 33  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSEE: Fish & Richardson, P.C.  
; STREET: 225 Franklin Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: US  
; ZIP: 02110-2804  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: Windows95  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/169,425C  
; FILING DATE: 09-OCT-1998  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 60/061,657  
; FILING DATE: 09-OCT-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fraser, Janis K.  
; REGISTRATION NUMBER: 34,819  
; REFERENCE/DOCKET NUMBER: 08191/004002  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-542-5070  
; TELEFAX: 617-543-8906  
; TELEX: 200154  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 9 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-09-169-425C-2  
Query Match 91.5%; Score 43; DB 2; Length 9;  
Best Local Similarity 88.9%; Pred. No. 4.6e+05;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIIVAPIC 9  
Db 1 TLGIIVPIC 9

RESULT 3  
US-08-197-484-68  
; Sequence 68, Application US/08197484  
; Patent No. 6419331  
; GENERAL INFORMATION:  
; APPLICANT: VITTELLO, Maria A.  
; APPLICANT: CHESTNUT, Robert W.



APPLICANT: SETTE, Alessandro D.  
APPLICANT: CELIS, Eteban  
APPLICANT: GRAY, Howard  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ELICITING  
TITLE OF INVENTION: CTL IMMUNITY  
NUMBER OF SEQUENCES: 153  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend Kourile and Crew  
STREET: Stewart Street Tower, One Market Plaza  
CITY: San Francisco  
STATE: California  
COUNTRY: US  
ZIP: 94105-1493  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/197,484  
FILING DATE: 16-FEB-1994  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/935,811  
FILING DATE: 26-AUG-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/874,491  
FILING DATE: 27-APR-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/827,682  
FILING DATE: 29-JAN-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/749,568  
FILING DATE: 26-AUG-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: Parmelee, Steven W.  
REGISTRATION NUMBER: 31,990  
REFERENCE/DOCKET NUMBER: 14137-26-4  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 467-9600  
TELEFAX: (206) 623-6793  
INFORMATION FOR SEQ ID NO: 68:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 9 amino acids  
TYPE: amino acid  
STRANDEDNESS: unknown  
TOPOLOGY: unknown  
MOLECULE TYPE: peptide  
US-08-197-484-68

Query Match 91.5%; Score 43; DB 2; Length 9;  
Best Local Similarity 88.9%; Pred. No. 4.6e+05;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 1 TLGIAPIC 9

RESULT 4  
US-09-759-960-2  
Sequence 2, Application US/09759960  
Patent No. 6582704  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Chicz, Roman M.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
TITLE OF INVENTION: PROTEIN  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.

STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/759,960  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/169,425  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Fraser, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 9 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-09-759-960-2

Query Match 91.5%; Score 43; DB 2; Length 9;  
Best Local Similarity 88.9%; Pred. No. 4.6e+05;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 1 TLGIAPIC 9

RESULT 5  
PCT-US95-02121-68  
Sequence 68, Application PC/TUS9502121  
GENERAL INFORMATION:  
APPLICANT:  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ELICITING  
TITLE OF INVENTION: CTL IMMUNITY  
NUMBER OF SEQUENCES: 153  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/02121  
FILING DATE: 16-FEB-1995  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/197,484  
FILING DATE: 16-FEB-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/935,811  
FILING DATE: 26-AUG-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/874,491  
FILING DATE: 27-APR-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/827,682  
FILING DATE: 29-JAN-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/749,568  
FILING DATE: 26-AUG-1991

ATTORNEY/AGENT INFORMATION:  
NAME: Parmelee, Steven W.  
REGISTRATION NUMBER: 31,990  
REFERENCE/DOCKET NUMBER: 14137-26-4PC  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 467-9600  
TELEFAX: (415) 543-5043  
INFORMATION FOR SEQ ID NO: 68:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 9 amino acids  
TYPE: amino acid  
STRANDEDNESS: unknown  
TOPOLOGY: unknown  
MOLECULE TYPE: peptide  
PCT-US95-02121-68

Query Match 91.5%; Score 43; DB 4; Length 9;  
Best Local Similarity 88.9%; Pred. No. 4.6e+05;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 1 TLGIAPIC 9

RESULT 6  
US-09-000-003A-9  
Sequence 9, Application US/09000003A  
Patent No. 6652850  
GENERAL INFORMATION:  
APPLICANT: Philip, Ramla  
Lebkowski, Jane S.  
TITLE OF INVENTION: ADENO-ASSOCIATED VIRAL LIPOSOMES AND  
THEIR USE IN TRANSFECTING DENDRITIC CELLS TO STIMULATE  
SPECIFIC IMMUNITY  
NUMBER OF SEQUENCES: 30  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Alexis Barron, Esq.  
STREET: Suite 2600 Aramark Tower, 1101 Market Street  
CITY: Philadelphia  
STATE: PA  
COUNTRY: United States of America  
ZIP: 19107  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/000.003A  
FILING DATE: 15-Jun-1998  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/US96/12012  
FILING DATE: 19-JUL-1996  
APPLICATION NUMBER: US 60/001.312  
FILING DATE: 21-JUL-1995  
APPLICATION NUMBER: US 60/007.184  
FILING DATE: 01-NOV-1995  
APPLICATION NUMBER: US 08/566.286  
FILING DATE: 01-DEC-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Barron, Alexis  
REGISTRATION NUMBER: 22,702  
REFERENCE/DOCKET NUMBER: 20,846-K USA  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (215) 923-4466  
TELEFAX: (215) 923-2189  
INFORMATION FOR SEQ ID NO: 9:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 10 amino acids  
TYPE: amino acid  
TOPOLOGY: linear

MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
SEQUENCE DESCRIPTION: SEQ ID NO: 9:  
US-09-000-003A-9

Query Match 91.5%; Score 43; DB 2; Length 10;  
Best Local Similarity 88.9%; Pred. No. 0.048;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 2 TLGIAPIC 10

RESULT 7  
US-09-405-986A-10  
Sequence 10, Application US/09405986A  
Patent No. 6676946  
GENERAL INFORMATION:  
APPLICANT: Bay, Sylvie  
APPLICANT: Cantacuzene, Daniele  
APPLICANT: Leclerc, Claude  
APPLICANT: Le-Man, Richard  
TITLE OF INVENTION: MULTIPLE ANTIGEN GLYCOPOLYMER CARBOHYDRATE,  
TITLE OF INVENTION: VACCINE COMPRISING THE SAME AND USE THEREOF  
FILE REFERENCE: 102.166A-1  
CURRENT APPLICATION NUMBER: US/09/405.986A  
CURRENT FILING DATE: 2002-06-11  
PRIOR APPLICATION NUMBER: US 09/049,847  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: US 60/041,726  
PRIOR FILING DATE: 1997-03-27  
NUMBER OF SEQ ID NOS: 25  
SOFTWARE: Patentin version 3.1  
SEQ ID NO 10  
LENGTH: 10  
TYPE: PRT  
ORGANISM: Human papillomavirus type 16  
FEATURE:  
NAME/KEY: MISC FEATURE  
OTHER INFORMATION: HPV16 E7 PEPTIDE  
US-09-405-986A-10

Query Match 91.5%; Score 43; DB 2; Length 10;  
Best Local Similarity 88.9%; Pred. No. 0.048;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 2 TLGIAPIC 10

RESULT 8  
US-09-169-425C-31  
Sequence 31, Application US/09169425C  
Patent No. 6183746  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Chicz, Roman M.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
TITLE OF INVENTION: PROTEIN  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/169,425C  
FILING DATE: 09-OCT-1998  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/061,657  
FILING DATE: 09-OCT-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Frazer, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 31:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 11 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FEATURE:  
NAME/KEY: Other  
LOCATION: 1...1  
OTHER INFORMATION: where Xaa at position 1 is Met, Ala, Ser,  
OTHER INFORMATION: Arg, Lys, Gly, Gln, Asp, or Glu  
US-09-169-425C-31

Query Match 91.5%; Score 43; DB 2; Length 11;  
Best Local Similarity 88.9%; Pred. No. 0.053;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 3 TLGIAPIC 11

RESULT 9  
US-09-169-425C-33  
Sequence 33, Application US/09169425C  
Patent No. 6183746  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Chiciz, Roman M.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
TITLE OF INVENTION: PROTEIN  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/169,425C  
FILING DATE: 09-OCT-1998  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/061,657  
FILING DATE: 09-OCT-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Frazer, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002

TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 33:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 11 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-09-169-425C-33

Query Match 91.5%; Score 43; DB 2; Length 11;  
Best Local Similarity 88.9%; Pred. No. 0.053;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 3 TLGIAPIC 11

RESULT 10  
US-09-759-960-31  
Sequence 31, Application US/09759960  
Patent No. 6582704  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Chiciz, Roman M.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
TITLE OF INVENTION: PROTEIN  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/759,960  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/169,425  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Frazer, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 31:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 11 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FEATURE:  
NAME/KEY: Other  
LOCATION: 1...1  
OTHER INFORMATION: where Xaa at position 1 is Met, Ala, Ser,  
OTHER INFORMATION: Arg, Lys, Gly, Gln, Asp, or Glu  
US-09-759-960-31

Query Match 91.5%; Score 43; DB 2; Length 11;



APPLICATION NUMBER: 60/061,657  
FILING DATE: 09-OCT-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Frazer, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 16:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 12 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-09-169-425C-16

Query Match 91.5%; Score 43; DB 2; Length 12;  
Best Local Similarity 88.9%; Pred. No. 0.058;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 4 TLGIAPIC 12

## RESULT 14

US-09-759-960-16  
Sequence 16, Application US/09759960  
Patent No. 6582704

GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Chiciz, Roman M.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
TITLE OF INVENTION: PROTEIN  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804

COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/759,960  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/169,425  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Frazer, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154

INFORMATION FOR SEQ ID NO: 16:

SEQUENCE CHARACTERISTICS:  
LENGTH: 12 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-09-759-960-16

Query Match 91.5%; Score 43; DB 2; Length 12;  
Best Local Similarity 88.9%; Pred. No. 0.058;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 4 TLGIAPIC 12

## RESULT 15

US-08-948-378A-3  
Sequence 3, Application US/08948378A  
Patent No. 6013258

GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Chiciz, Roman M.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM  
TITLE OF INVENTION: THE HPV E7 PROTEIN  
NUMBER OF SEQUENCES: 19  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804

COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/948,378A  
FILING DATE: 09-OCT-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Frazer, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154

INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 13 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-948-378A-3

Query Match 91.5%; Score 43; DB 2; Length 13;  
Best Local Similarity 88.9%; Pred. No. 0.064;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 5 TLGIAPIC 13

## RESULT 16

US-08-948-378A-4  
Sequence 4, Application US/08948378A  
Patent No. 6013258

GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Chiciz, Roman M.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn

;; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM  
;; TITLE OF INVENTION: THE HPV E7 PROTEIN  
;; NUMBER OF SEQUENCES: 19  
;; CORRESPONDENCE ADDRESSES:  
;; ADDRESSEE: Fish & Richardson, P.C.  
;; STREET: 225 Franklin Street  
;; CITY: Boston  
;; STATE: MA  
;; COUNTRY: US  
;; ZIP: 02110-2804  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Diskette  
;; COMPUTER: IBM Compatible  
;; OPERATING SYSTEM: Windows95  
;; SOFTWARE: FastSeq for Windows Version 2.0  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/948,378A  
;; FILING DATE: 09-OCT-1997  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER:  
;; FILING DATE:  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Fraser, Janis K.  
;; REGISTRATION NUMBER: 34,819  
;; REFERENCE/DOCKET NUMBER: 08191/004001  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 617-542-5070  
;; TELEFAX: 617-543-8906  
;; TELEX: 200154  
;; INFORMATION FOR SEQ ID NO: 4:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 13 amino acids  
;; TYPE: amino acid  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: peptide  
US-08-948-378A-4

Query Match 91.5%; Score 43; DB 2; Length 13;  
Best Local Similarity 88.9%; Pred. No. 0.064;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 5 TLGIAPIC 13

RESULT 17  
US-08-948-378A-19  
;; Sequence 19, Application US/08948378A  
;; Patent No. 6013258  
;; GENERAL INFORMATION:  
;; APPLICANT: Urban, Robert G.  
;; APPLICANT: Chicz, Roman M.  
;; APPLICANT: Collins, Edward J.  
;; APPLICANT: Hedley, Mary Lynn  
;; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM  
;; TITLE OF INVENTION: THE HPV E7 PROTEIN  
;; NUMBER OF SEQUENCES: 19  
;; CORRESPONDENCE ADDRESSES:  
;; ADDRESSEE: Fish & Richardson, P.C.  
;; STREET: 225 Franklin Street  
;; CITY: Boston  
;; STATE: MA  
;; COUNTRY: US  
;; ZIP: 02110-2804  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Diskette  
;; COMPUTER: IBM Compatible  
;; OPERATING SYSTEM: Windows95  
;; SOFTWARE: FastSeq for Windows Version 2.0  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/948,378A  
;; FILING DATE: 09-OCT-1997

;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER:  
;; FILING DATE:  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Fraser, Janis K.  
;; REGISTRATION NUMBER: 34,819  
;; REFERENCE/DOCKET NUMBER: 08191/004001  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 617-542-5070  
;; TELEFAX: 617-543-8906  
;; TELEX: 200154  
;; INFORMATION FOR SEQ ID NO: 19:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 13 amino acids  
;; TYPE: amino acid  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: peptide  
;; FEATURE:  
;; NAME/KEY: Coding Sequence  
;; LOCATION: 1...1  
;; OTHER INFORMATION: where X at position 1 is Ala, Ser, Arg, Lys,  
;; OTHER INFORMATION: Gly, Gln, Asp, or Gln  
US-08-948-378A-19

Query Match 91.5%; Score 43; DB 2; Length 13;  
Best Local Similarity 88.9%; Pred. No. 0.064;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 5 TLGIAPIC 13

RESULT 18  
US-08-159-339A-1167  
;; Sequence 1167, Application US/08159339A  
;; Patent No. 6037135  
;; GENERAL INFORMATION:  
;; APPLICANT: Kubo, Ralph T.  
;; APPLICANT: Grey, Howard M.  
;; APPLICANT: Sette, Alessandro  
;; APPLICANT: Celis, Esteban  
;; TITLE OF INVENTION: HLA Binding peptides and Their  
;; TITLE OF INVENTION: Uses  
;; NUMBER OF SEQUENCES: 1254  
;; CORRESPONDENCE ADDRESSES:  
;; ADDRESSEE: Townsend and Townsend and Crew LLP  
;; STREET: Two Embarcadero Center, Eighth Floor  
;; CITY: San Francisco  
;; STATE: CA  
;; COUNTRY: USA  
;; ZIP: 94111-3834  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Diskette  
;; COMPUTER: IBM Compatible  
;; OPERATING SYSTEM: DOS  
;; SOFTWARE: FastSeq for Windows Version 2.0  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/159,339A  
;; FILING DATE: 29-NOV-1993  
;; CLASSIFICATION: 424  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: US 07/926,666  
;; FILING DATE: 07-AUG-1992  
;; APPLICATION NUMBER: US 08/027,746  
;; FILING DATE: 05-MAR-1993  
;; APPLICATION NUMBER: US 08/103,396  
;; FILING DATE: 06-AUG-1993  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Weber, Ellen Lauver  
;; REGISTRATION NUMBER: 32,762  
;; REFERENCE/DOCKET NUMBER: 018623-005030US  
;; TELECOMMUNICATION INFORMATION:

TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
TELEX:  
INFORMATION FOR SEQ ID NO: 1167:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 13 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-159-339A-1167

Query Match 91.5%; Score 43; DB 2; Length 13;  
Best Local Similarity 88.9%; Pred. No. 0.064;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIAPIC 9  
Db 2 TLGIAPIC 10

RESULT 19  
US-09-169-425C-3  
Sequence 3, Application US/09169425C  
Patent No. 6183746  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/169,425C  
FILING DATE: 09-OCT-1998  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/061,657  
FILING DATE: 09-OCT-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Frazer, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 13 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-09-169-425C-3

Query Match 91.5%; Score 43; DB 2; Length 13;  
Best Local Similarity 88.9%; Pred. No. 0.064;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIAPIC 9  
Db 2 TLGIAPIC 10

Db 5 TLGIAPIC 13

RESULT 20  
US-09-169-425C-4  
Sequence 4, Application US/09169425C  
Patent No. 6183746  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/169,425C  
FILING DATE: 09-OCT-1998  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/061,657  
FILING DATE: 09-OCT-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Frazer, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 13 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-09-169-425C-4

Query Match 91.5%; Score 43; DB 2; Length 13;  
Best Local Similarity 88.9%; Pred. No. 0.064;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIAPIC 9  
Db 5 TLGIAPIC 13

RESULT 21  
US-09-169-425C-19  
Sequence 19, Application US/09169425C  
Patent No. 6183746  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street

```
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/169,425C
; FILING DATE: 09-OCT-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/061,657
; FILING DATE: 09-OCT-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 08191/004002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-543-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 13 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: Other
; LOCATION: 1...1
; OTHER INFORMATION: where Xaa at position 1 is Met, Ala, Ser,
; OTHER INFORMATION: Arg, Lys, Gly, Gln, Asp, or Glu
; US-09-169-425C-19

Query Match      91.5%; Score 43; DB 2; Length 13;
Best Local Similarity 88.9%; Pred. No. 0.064;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIIVAPIC 9
Db      5 TLGIIVCPIG 13

RESULT 22
US-09-759-960-3
; Sequence 3, Application US/09759960
; Patent No. 6582704
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/759,960
; FILING DATE:
; PRIOR APPLICATION DATA:
```

```
; APPLICATION NUMBER: 09/169,425
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 08191/004002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-543-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 13 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-09-759-960-3

Query Match      91.5%; Score 43; DB 2; Length 13;
Best Local Similarity 88.9%; Pred. No. 0.064;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIIVAPIC 9
Db      5 TLGIIVCPIG 13

RESULT 23
US-09-759-960-4
; Sequence 4, Application US/09759960
; Patent No. 6582704
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/759,960
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/169,425
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 08191/004002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-543-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 13 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-09-759-960-4
```



Query Match 91.5%; Score 43; DB 2; Length 13;  
Best Local Similarity 88.9%; Pred. No. 0.064;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 5 TLGIAPIC 13

## RESULT 24

US-09-759-960-19

; Sequence 19, Application US/09759960

; Patent No. 6582704

; GENERAL INFORMATION:

; APPLICANT: Urban, Robert G.

; APPLICANT: Chicz, Roman M.

; APPLICANT: Collins, Edward J.

; APPLICANT: Hedley, Mary Lynn

; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7

; NUMBER OF SEQUENCES: 33

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Fish &amp; Richardson, P.C.

; STREET: 225 Franklin Street

; CITY: Boston

; STATE: MA

; COUNTRY: US

; ZIP: 02110-2804

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; OPERATING SYSTEM: Windows95

; SOFTWARE: FASTSEQ for Windows Version 2.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/759,960

; FILING DATE:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 09/169,425

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Frazer, Janis K.

; REGISTRATION NUMBER: 34,819

; REFERENCE/DOCKET NUMBER: 08191/004002

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 617-542-5070

; TELEFAX: 617-543-8906

; TELEX: 200154

; INFORMATION FOR SEQ ID NO: 19:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 13 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: peptide

; FEATURE:

; NAME/KEY: Other

; LOCATION: 1...1

; OTHER INFORMATION: where Xaa at position 1 is Met, Ala, Ser,

; OTHER INFORMATION: Arg, Lys, Gly, Gln, Asp, or Glu

; US-09-759-960-19

Query Match 91.5%; Score 43; DB 2; Length 13;  
Best Local Similarity 88.9%; Pred. No. 0.064;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 5 TLGIAPIC 13

## RESULT 25

US-09-169-425C-32

; Sequence 32, Application US/09169425C

; Patent No. 6183746

GENERAL INFORMATION:  
; APPLICANT: Urban, Robert G.  
; APPLICANT: Chicz, Roman M.  
; APPLICANT: Collins, Edward J.  
; APPLICANT: Hedley, Mary Lynn  
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
; NUMBER OF SEQUENCES: 33

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Fish &amp; Richardson, P.C.

; STREET: 225 Franklin Street

; CITY: Boston

; STATE: MA

; COUNTRY: US

; ZIP: 02110-2804

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; OPERATING SYSTEM: Windows95

; SOFTWARE: FASTSEQ for Windows Version 2.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/169,425C

; FILING DATE: 09-OCT-1998

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 60/061,657

; FILING DATE: 09-OCT-1997

; ATTORNEY/AGENT INFORMATION:

; NAME: Frazer, Janis K.

; REGISTRATION NUMBER: 34,819

; REFERENCE/DOCKET NUMBER: 08191/004002

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 617-542-5070

; TELEFAX: 617-543-8906

; TELEX: 200154

; INFORMATION FOR SEQ ID NO: 32:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 14 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: peptide

; US-09-169-425C-32

Query Match 91.5%; Score 43; DB 2; Length 14;  
Best Local Similarity 88.9%; Pred. No. 0.069;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 3 TLGIAPIC 11

## RESULT 26

US-09-759-960-32

; Sequence 32, Application US/09759960

; Patent No. 6582704

; GENERAL INFORMATION:

; APPLICANT: Urban, Robert G.

; APPLICANT: Chicz, Roman M.

; APPLICANT: Collins, Edward J.

; APPLICANT: Hedley, Mary Lynn

; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7

; NUMBER OF SEQUENCES: 33

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Fish &amp; Richardson, P.C.

; STREET: 225 Franklin Street

; CITY: Boston

; STATE: MA

; COUNTRY: US

; ZIP: 02110-2804

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; COMPUTER: IBM Compatible

OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/759,960  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/169,425  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Fraser, Janis K.  
REGISTRATION NUMBER: 34,819  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 32:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 14 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-09-759-960-32

Query Match 91.5%; Score 43; DB 2; Length 14;  
Best Local Similarity 88.9%; Pred. No. 0.069;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIIVAPIC 9  
Db 3 TLGIIVCPIC 11

RESULT 27  
US-08-159-339A-1168  
Sequence 1168, Application US/08159339A  
Patent No. 6037135  
GENERAL INFORMATION:  
APPLICANT: Kubo, Ralph T.  
APPLICANT: Grey, Howard M.  
APPLICANT: Sette, Alessandro  
APPLICANT: Celis, Esben  
TITLE OF INVENTION: HLA Binding peptides and Their  
NUMBER OF SEQUENCES: 1254  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/159,339A  
FILING DATE: 29-NOV-1993  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/926,666  
FILING DATE: 07-AUG-1992  
APPLICATION NUMBER: US 08/027,746  
FILING DATE: 05-MAR-1993  
APPLICATION NUMBER: US 08/103,396  
FILING DATE: 06-AUG-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Weber, Ellen Lauver  
REGISTRATION NUMBER: 32,762  
REFERENCE/DOCKET NUMBER: 018623-005030US  
TELECOMMUNICATION INFORMATION:

TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
TELEX:  
INFORMATION FOR SEQ ID NO: 1168:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 15 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-159-339A-1168

Query Match 91.5%; Score 43; DB 2; Length 15;  
Best Local Similarity 88.9%; Pred. No. 0.074;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIIVAPIC 9  
Db 4 TLGIIVCPIC 12

RESULT 28  
US-09-169-425C-25  
Sequence 25, Application US/09169425C  
Patent No. 6183746  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Chiczy, Roman M.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/169,425C  
FILING DATE: 09-OCT-1998  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/061,657  
FILING DATE: 09-OCT-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Fraser, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 25:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 16 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-09-169-425C-25

Query Match 91.5%; Score 43; DB 2; Length 16;  
Best Local Similarity 88.9%; Pred. No. 0.08;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIIVAPIC 9  
Db 1 TLGIIVCPIC 11

Db 5 TLGIVCPC 13

## RESULT 29

US-09-759-960-25  
; Sequence 25, Application US/09759960  
; Patent No. 6582704  
; GENERAL INFORMATION:  
; APPLICANT: Urban, Robert G.  
; APPLICANT: Chicz, Roman M.  
; APPLICANT: Collins, Edward J.  
; APPLICANT: Hedley, Mary Lynn  
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
; TITLE OF INVENTION: PROTEIN  
; NUMBER OF SEQUENCES: 33  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fish & Richardson, P.C.  
; STREET: 225 Franklin Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: US  
; ZIP: 02110-2804  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; OPERATING SYSTEM: Windows95  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/759, 960  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 09/169,425  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Frazer, Janis K.  
; REGISTRATION NUMBER: 34,819  
; REFERENCE/DOCKET NUMBER: 08191/004002  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-542-5070  
; TELEFAX: 617-543-8906  
; TELEX: 200154  
; INFORMATION FOR SEQ ID NO: 25:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 16 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; US-09-759-960-25

Query Match 91.5%; Score 43; DB 2; Length 16;  
Best Local Similarity 88.9%; Pred. No. 0.08;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIVAPIC 9  
Db 5 TLGIVCPC 13

RESULT 30  
US-09-980-523A-18  
; Sequence 18, Application US/09980523A  
; Patent No. 6783763  
; GENERAL INFORMATION:  
; APPLICANT: CHOPPIN, JEANNINE  
; APPLICANT: BOURGAULT VILADA, ISABELLE  
; APPLICANT: GUILLET, JEAN-GERARD  
; APPLICANT: CONNAN, FRANCES  
; APPLICANT: FERRIES, ESTELLE  
; TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 AND E7  
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE  
; FILE REFERENCE: WO1 AO INS  
; CURRENT APPLICATION NUMBER: US/09/980, 523A

;; CURRENT FILING DATE: 2002-04-29  
;; PRIOR APPLICATION NUMBER: PCT/FR00/01513

;; PRIOR FILING DATE: 2000-05-31  
;; PRIOR APPLICATION NUMBER: FR 99/07012  
;; PRIOR FILING DATE: 1999-06-03  
;; NUMBER OF SEQ ID NOS: 24  
;; SOFTWARE: PatentIn Ver. 2.1  
;; SEQ ID NO 18  
;; LENGTH: 19  
;; TYPE: PRT  
;; ORGANISM: Human Papillomavirus  
US-09-980-523A-18

Query Match 91.5%; Score 43; DB 2; Length 19;  
Best Local Similarity 88.9%; Pred. No. 0.096;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIVAPIC 9  
Db 8 TLGIVCPC 16

RESULT 31  
US-08-075-541D-50  
; Sequence 50, Application US/08075541D  
; Patent No. 6183745  
; GENERAL INFORMATION:  
; APPLICANT: TINDLE, ROBERT  
; APPLICANT: FERNANDO, GERMAIN  
; APPLICANT: FRAZER, IAN  
; TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND  
; TITLE OF INVENTION: PEPTIDES FOR USE THEREIN  
; NUMBER OF SEQUENCES: 56  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.  
; STREET: 1601 MARKET STREET, 36TH FLOOR  
; CITY: PHILADELPHIA  
; STATE: PENNSYLVANIA  
; COUNTRY: USA  
; ZIP: 19103-2398  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/075, 541D  
; FILING DATE: 10-JUN-1993  
; CLASSIFICATION: 424

;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: AU pk 3876  
;; FILING DATE: 12-DEC-1990  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: PCT/AU91/00575  
;; FILING DATE: 12-DEC-1991  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: NADEL, ALAN S  
;; REGISTRATION NUMBER: 27,363  
;; REFERENCE/DOCKET NUMBER: 8795-4  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 215-567-2020  
;; TELEFAX: 215-567-2991  
;; INFORMATION FOR SEQ ID NO: 50:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 20 amino acids  
;; TYPE: amino acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: peptide  
US-08-075-541D-50

Query Match 91.5%; Score 43; DB 2; Length 20;  
Best Local Similarity 88.9%; Pred. No. 0.1;

Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIIVAPIC 9  
| | | | |  
Db 12 TLGIIVCPIC 20

RESULT 32  
US-08-934-915-50  
; Sequence 50, Application US/08934915  
; Patent No. 5932412  
; GENERAL INFORMATION:  
; APPLICANT: DILLNER, JOAKIM  
; APPLICANT: DILLNER, LENA  
; APPLICANT: CHENG, HWEI-MING  
; TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN  
; TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,  
; TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,  
; TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR  
; NUMBER OF SEQUENCES: 193  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MASON & ASSOCIATES, P.A.  
; STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500  
; CITY: CLEARWATER  
; STATE: FLORIDA  
; COUNTRY: U.S.A.  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: Windows 3.0  
; SOFTWARE: Microsoft Word 6.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/934,915  
; FILING DATE: 22-SEP-1997  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/949,836  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: LOUISE A. FOUTCH  
; REGISTRATION NUMBER: 37,133  
; REFERENCE/DOCKET NUMBER: 1946.6  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 813-538-3800  
; TELEFAX: 813-538-3820  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 50:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 21 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-934-915-50

Query Match 91.5%; Score 43; DB 1; Length 21;  
Best Local Similarity 88.9%; Pred. No. 0.11;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIIVAPIC 9  
| | | | |  
Db 9 TLGIIVCPIC 17

RESULT 33  
US-08-934-915-157  
; Sequence 157, Application US/08934915  
; Patent No. 5932412  
; GENERAL INFORMATION:  
; APPLICANT: DILLNER, JOAKIM  
; APPLICANT: DILLNER, LENA  
; APPLICANT: CHENG, HWEI-MING  
; TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN

; TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,  
; TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,  
; TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR  
; TITLE OF INVENTION: DIAGNOSTIC PURPOSES  
; NUMBER OF SEQUENCES: 193  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MASON & ASSOCIATES, P.A.  
; STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500  
; CITY: CLEARWATER  
; STATE: FLORIDA  
; COUNTRY: U.S.A.  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: Windows 3.0  
; SOFTWARE: Microsoft Word 6.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/934,915  
; FILING DATE: 22-SEP-1997  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/949,836  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: LOUISE A. FOUTCH  
; REGISTRATION NUMBER: 37,133  
; REFERENCE/DOCKET NUMBER: 1946.6  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 813-538-3800  
; TELEFAX: 813-538-3820  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 157:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 21 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-934-915-157

Query Match 91.5%; Score 43; DB 1; Length 21;  
Best Local Similarity 88.9%; Pred. No. 0.11;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIIVAPIC 9  
| | | | |  
Db 9 TLGIIVCPIC 17

RESULT 34  
US-09-980-177A-76  
; Sequence 76, Application US/09980177A  
; Patent No. 6838084  
; GENERAL INFORMATION:  
; APPLICANT: Jochmus, Ingrid  
; APPLICANT: Nieland, John  
; TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the  
; TITLE OF INVENTION: Papilloma Virus L1-Protein and Use Thereof in Diagnosis and  
; FILE REFERENCE: 50125/036001  
; CURRENT APPLICATION NUMBER: US/09/980,177A  
; PRIOR FILING DATE: 2001-11-29  
; PRIOR APPLICATION NUMBER: PCT/EP00/05006  
; PRIOR FILING DATE: 2000-05-31  
; PRIOR APPLICATION NUMBER: DE 19925199.1  
; PRIOR FILING DATE: 1999-06-01  
; NUMBER OF SEQ ID NOS: 77  
; SOFTWARE: PastSeq for Windows Version 4.0  
; SEQ ID NO 76  
; LENGTH: 21  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-09-980-177A-76

Query Match 91.5%; Score 43; DB 2; Length 21;  
Best Local Similarity 88.9%; Pred. No. 0.11;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIIVAPIC 9  
Db 9 TLGIIVCPIC 17

## RESULT 35

US-08-075-541D-40  
; Sequence 40, Application US/08075541D  
; Patent No. 6183745  
; GENERAL INFORMATION:  
; APPLICANT: TINDLE, ROBERT  
; APPLICANT: FERNANDO, GERMAIN  
; APPLICANT: FRAZER, IAN  
; TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND  
; TITLE OF INVENTION: PEPTIDES FOR USE THEREIN  
; NUMBER OF SEQUENCES: 56  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.  
; STREET: 1601 MARKET STREET, 36TH FLOOR  
; CITY: PHILADELPHIA  
; STATE: PENNSYLVANIA  
; COUNTRY: USA  
; ZIP: 19103-2398  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/075.541D  
; FILING DATE: 10-JUN-1993  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: AU PK 3876  
; FILING DATE: 12-DEC-1990  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: pct/au91/00575  
; FILING DATE: 12-DEC-1991  
; ATTORNEY/AGENT INFORMATION:  
; NAME: NADEL, ALAN S  
; REGISTRATION NUMBER: 27,363  
; REFERENCE/DOCKET NUMBER: 8795-4  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 215-567-2020  
; TELEFAX: 215-567-2991  
; INFORMATION FOR SEQ ID NO: 40:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 26 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; US-08-075-541D-40

Query Match 91.5%; Score 43; DB 2; Length 26;  
Best Local Similarity 88.9%; Pred. No. 0.13;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIIVAPIC 9  
Db 15 TLGIIVCPIC 23

RESULT 36  
US-09-486-394-5  
; Sequence 5, Application US/09486394  
; Patent No. 6478749  
; GENERAL INFORMATION:  
; APPLICANT: Hopfl, Reinhard

; TITLE OF INVENTION: Diagnostic Kit for Skin Tests, and Method  
; FILE REFERENCE: 032929-001  
; CURRENT APPLICATION NUMBER: US/09/486.394  
; CURRENT FILING DATE: 2000-06-20  
; PRIOR APPLICATION NUMBER: PCT/EP98/04773  
; PRIOR FILING DATE: 1998-07-30  
; PRIOR APPLICATION NUMBER: DE 197 37 409.3  
; PRIOR FILING DATE: 1997-08-27  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: Patentin version 3.1  
; SEQ ID NO 5  
; LENGTH: 28  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
; FEATURE:  
; NAME/KEY: PEPTIDE  
; LOCATION: (1)..(28)  
; OTHER INFORMATION: E7 peptide.  
US-09-486-394-5

Query Match 91.5%; Score 43; DB 2; Length 28;  
Best Local Similarity 88.9%; Pred. No. 0.15;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIIVAPIC 9  
Db 16 TLGIIVCPIC 24

RESULT 37  
US-08-934-915-54  
; Sequence 54, Application US/08934915  
; Patent No. 5932412  
; GENERAL INFORMATION:  
; APPLICANT: DILLNER, JOAKIM  
; APPLICANT: DILLNER, LENA  
; APPLICANT: CHENG, HWEE-MING  
; TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN  
; TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,  
; TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,  
; TITLE OF INVENTION: USEFUL IN IMMUNOSAY FOR  
; TITLE OF INVENTION: DIAGNOSTIC PURPOSES  
; NUMBER OF SEQUENCES: 193  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MASON & ASSOCIATES, P.A.  
; STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500  
; CITY: CLEARWATER  
; STATE: FLORIDA  
; COUNTRY: U.S.A.  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: Windows 3.0  
; SOFTWARE: Microsoft Word 6.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/934.915  
; FILING DATE: 22-SEP-1997  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/949, 836  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: LOUISE A. Foutch  
; REGISTRATION NUMBER: 37,133  
; REFERENCE/DOCKET NUMBER: 1946.6  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 813-538-3800  
; TELEFAX: 813-538-3820  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 54:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 30 amino acids  
; TYPE: amino acid

TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-934-915-54

Query Match 91.5%; Score 43; DB 1; Length 30;  
Best Local Similarity 88.9%; Pred. No. 0.16;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIIVAPIC 9  
DB 18 TLGIIVCPIC 26

RESULT 38  
US-08-948-378A-6  
Sequence 6, Application US/08948378A  
Patent No. 6013258  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Chicz, Roman M.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM  
THE HPV E7 PROTEIN  
NUMBER OF SEQUENCES: 19  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
OPERATING SYSTEM: Windows95  
SOFTWARE: FASTSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/948.378A  
FILING DATE: 09-OCT-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Fraser, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 38 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FRAGMENT TYPE: internal  
US-08-948-378A-6  
Query Match 91.5%; Score 43; DB 2; Length 38;  
Best Local Similarity 88.9%; Pred. No. 0.2;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIIVAPIC 9  
DB 30 TLGIIVCPIC 38

RESULT 39  
US-09-169-425C-6  
Sequence 6, Application US/09169425C  
Patent No. 6183746

GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Chicz, Roman M.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
PROTEIN  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
OPERATING SYSTEM: Windows95  
SOFTWARE: FASTSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/169.425C  
FILING DATE: 09-OCT-1998  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/061,657  
FILING DATE: 09-OCT-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Fraser, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 38 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FRAGMENT TYPE: internal  
US-09-169-425C-6

Query Match 91.5%; Score 43; DB 2; Length 38;  
Best Local Similarity 88.9%; Pred. No. 0.2;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIIVAPIC 9  
DB 30 TLGIIVCPIC 38

RESULT 40  
US-09-759-960-6  
Sequence 6, Application US/09759960  
Patent No. 6582704  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Chicz, Roman M.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
PROTEIN  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette

```
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/759,960
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/169,425
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Frazer, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 38 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: internal
US-09-759-960-6

Query Match      91.5%; Score 43; DB 2; Length 38;
Best Local Similarity 88.9%; Pred. No. 0.2;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIAPIC 9
Db      30 TLGIAPIC 38

RESULT 41
US-08-406-248-6
Sequence 6, Application US/08406248
Patent No. 5736318
GENERAL INFORMATION:
APPLICANT: Munger, Karl
APPLICANT: Jones, D. Leanne
TITLE OF INVENTION: METHOD AND KIT FOR EVALUATING
TITLE OF INVENTION: TRANSFORMED CELLS
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSER: Ann-Louise Kerner, Ph.D., Lappin & Kusmer
STREET: 200 State Street
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/406,248
FILING DATE:
CLASSIFICATION: 436
ATTORNEY/AGENT INFORMATION:
NAME: McDaniel, Patricia A.
REGISTRATION NUMBER: 33,194
REFERENCE/DOCKET NUMBER: HAZ-011
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-330-1311
TELEFAX: 617-330-1300
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
```

```
MOLECULE TYPE: protein
US-08-406-248-6
Query Match      91.5%; Score 43; DB 1; Length 98;
Best Local Similarity 88.9%; Pred. No. 0.56;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIAPIC 9
Db      86 TLGIAPIC 94

RESULT 42
US-08-075-541D-42
Sequence 42, Application US/08075541D
Patent No. 6183745
GENERAL INFORMATION:
APPLICANT: TINDLE, ROBERT
APPLICANT: FRAZER, IAN
TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
NUMBER OF SEQUENCES: 56
CORRESPONDENCE ADDRESS:
ADDRESSER: PANITCH SCHWARZE JACOBS & NADEL, P.C.
STREET: 1601 MARKET STREET, 36TH FLOOR
CITY: PHILADELPHIA
STATE: PENNSYLVANIA
COUNTRY: USA
ZIP: 19103-2398
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/075,541D
FILING DATE: 10-JUN-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU pk 3876
FILING DATE: 12-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: pcc/au91/00575
FILING DATE: 12-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: NADEL, ALAN S
REGISTRATION NUMBER: 27,363
REFERENCE/DOCKET NUMBER: 8795-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-567-2020
TELEFAX: 215-567-2991
INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-075-541D-42

Query Match      91.5%; Score 43; DB 2; Length 98;
Best Local Similarity 88.9%; Pred. No. 0.56;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIAPIC 9
Db      86 TLGIAPIC 94

RESULT 43
US-09-382-616A-1
Sequence 1, Application US/09382616A
```

Patent No. 6200746  
GENERAL INFORMATION:  
APPLICANT: Fisher, Christopher  
APPLICANT: He, Manxia  
TITLE OF INVENTION: Methods to Identify Anti-Viral Agents  
FILE REFERENCE: 28341/6216  
CURRENT APPLICATION NUMBER: US/09/382,616A  
CURRENT FILING DATE: 1999-08-25  
PRIOR APPLICATION NUMBER: 09/382,616  
PRIOR FILING DATE: 1999-08-25  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 1  
LENGTH: 98  
TYPE: PRT  
ORGANISM: Papillomavirus sv1v1agi  
US-09-382-616A-1

Query Match 91.5%; Score 43; DB 2; Length 98;  
Best Local Similarity 88.9%; Pred. No. 0.56;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIVAPIC 9  
DB 86 TLGIVCPC 94

RESULT 44  
US-08-944-368A-4  
Sequence 4, Application US/08944368A  
Patent No. 6228368  
GENERAL INFORMATION:  
APPLICANT: Giesman, et al.  
TITLE OF INVENTION: Papilloma Virus Capsomere Vaccine  
TITLE OF INVENTION: Formulations and Methods of Use  
NUMBER OF SEQUENCES: 28  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &  
STREET: 233 South Wacker Drive, 6300 Sears Tower  
CITY: Chicago  
STATE: Illinois  
COUNTRY: United States of America  
ZIP: 60606-6402  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/944,368A  
FILING DATE:  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
NAME: Williams Jr., Joseph A.  
REGISTRATION NUMBER: 38,659  
REFERENCE/DOCKET NUMBER: 27013/34028  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 312-474-6300  
TELEFAX: 312-474-0448  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 98 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-944-368A-4

Query Match 91.5%; Score 43; DB 2; Length 98;  
Best Local Similarity 88.9%; Pred. No. 0.56;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 TLGIVAPIC 9

DB 86 TLGIVCPC 94

RESULT 45  
US-09-820-764-4  
Sequence 4, Application US/09820764  
Patent No. 6352696  
GENERAL INFORMATION:  
APPLICANT: BURGER, Alexander  
APPLICANT: HALLER, Michael  
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE  
TITLE OF INVENTION: FORMULATIONS AND METHODS OF USE  
NUMBER OF SEQUENCES: 28  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FOLEY & LARDNER  
STREET: 3000 K Street, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20007-5109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/820,764  
FILING DATE: 30-Mar-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 09/026,896  
FILING DATE: 20-FEB-1998  
ATTORNEY/AGENT INFORMATION:  
NAME: Sandercock, Colin G.  
REGISTRATION NUMBER: 31,298  
REFERENCE/DOCKET NUMBER: 37067/102  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 672-5300  
TELEFAX: (202) 672-5399  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 98 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
US-09-820-764-4

Query Match 91.5%; Score 43; DB 2; Length 98;  
Best Local Similarity 88.9%; Pred. No. 0.56;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIVAPIC 9  
DB 86 TLGIVCPC 94

RESULT 46  
US-09-613-303-8  
Sequence 8, Application US/09613303  
Patent No. 6495347  
GENERAL INFORMATION:  
APPLICANT: Siegel, Marvin  
APPLICANT: Chu, N. Randall  
APPLICANT: Mizen, Lee A.  
TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO  
FILE REFERENCE: 12071/002001  
CURRENT APPLICATION NUMBER: US/09/613,303  
CURRENT FILING DATE: 2000-07-10  
PRIOR APPLICATION NUMBER: US 60/143,757  
PRIOR FILING DATE: 1999-07-08  
NUMBER OF SEQ ID NOS: 55



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; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-09-613-303-8

Query Match      91.5%  Score 43; DB 2; Length 98;
Best Local Similarity 88.9%  Pred. No. 0.56;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIAPIC 9
        |||||
Db      86 TLGIAPIC 94

RESULT 47
US-09-566-420-19
; Sequence 19, Application US/09566420
; Patent No. 6500641
; GENERAL INFORMATION:
; APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
; FILE REFERENCE: TBA
; CURRENT APPLICATION NUMBER: US/09/566,420
; PRIOR FILING DATE: 2000-05-05
; PRIOR APPLICATION NUMBER: 60/132,752
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: 60/132,750
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: Patentn Ver. 2.0
; SEQ ID NO 19
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type E7
US-09-566-420-19

Query Match      91.5%  Score 43; DB 2; Length 98;
Best Local Similarity 88.9%  Pred. No. 0.56;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIAPIC 9
        |||||
Db      86 TLGIAPIC 94

RESULT 48
US-09-986-118A-4
; Sequence 4, Application US/09986118A
; Patent No. 6562351
; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
; FORMULATIONS AND METHODS OF USE
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
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; APPLICATION NUMBER: US/09/986,118A
; FILING DATE: 07-NO. 6562351-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 09/026,896
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Sandercock, Colin G.
; REGISTRATION NUMBER: 31,298
; REFERENCE/DOCKET NUMBER: 37067/102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 672-5300
; TELEFAX: (202) 672-5399
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-986-118A-4

Query Match      91.5%  Score 43; DB 2; Length 98;
Best Local Similarity 88.9%  Pred. No. 0.56;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIAPIC 9
        |||||
Db      86 TLGIAPIC 94

RESULT 49
US-09-728-466-1
; Sequence 1, Application US/09728466
; Patent No. 6641994
; GENERAL INFORMATION:
; APPLICANT: Fisher, Christopher
; TITLE OF INVENTION: Methode to Identify Anti-Viral Agents
; FILE REFERENCE: 28341/6216
; CURRENT APPLICATION NUMBER: US/09/728,466
; PRIOR FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: 09/382,616
; PRIOR FILING DATE: 1999-08-25
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Patentn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Papillomavirus sylvilagi
US-09-728-466-1

Query Match      91.5%  Score 43; DB 2; Length 98;
Best Local Similarity 88.9%  Pred. No. 0.56;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIAPIC 9
        |||||
Db      86 TLGIAPIC 94

RESULT 50
US-09-824-017-4
; Sequence 4, Application US/09824017
; Patent No. 6649167
; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
; FORMULATIONS AND METHODS OF USE
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
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STREET: 3000 K Street, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20007-5109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/824,017  
FILING DATE: 03-Apr-2001  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/026,896  
FILING DATE: 1998-02-20  
ATTORNEY/AGENT INFORMATION:  
NAME: Sandercock, Colin G.  
REGISTRATION NUMBER: 31,298  
REFERENCE/DOCKET NUMBER: 37067/102  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 672-5300  
TELEFAX: (202) 672-5399  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 98 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
US-09-824-017-4

Query Match 91.5%; Score 43; DB 2; Length 98;  
Best Local Similarity 88.9%; Pred. No. 0.56;  
Matches 8; Conservative 0; Mismatches 1; Indels 0;

QY 1 TLGIAPIC 9  
Db 86 TLGIICPIC 94

Search completed: May 5, 2006, 03:12:54  
Job time : 24.7 secs

GenCore version 5.1.7  
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OM protein - protein search, using sw model

Run on: May 5, 2006, 07:56:48 ; Search time 56 Seconds  
(without alignments)  
67.151 Million cell updates/sec

Title: US-08-170-344-20  
Perfect score: 47  
Sequence: 1 TLGIVAPIC 9

Scoring table: BIOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues  
Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database :  
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3: /cgnt2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep.\*  
4: /cgnt2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*  
5: /cgnt2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*  
6: /cgnt2\_6/ptodata/1/pubpaa/US11\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

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2	43	91.5	9	3	US-09-909-460-111
3	43	91.5	9	3	US-09-872-836-115
4	43	91.5	9	4	US-10-128-711-68
5	43	91.5	9	4	US-10-472-661-5
6	43	91.5	9	4	US-10-472-661-6
7	43	91.5	9	4	US-10-777-053-326
8	43	91.5	9	4	US-10-777-053-490
9	43	91.5	9	4	US-10-837-217-326
10	43	91.5	9	4	US-10-837-217-490
11	43	91.5	9	5	US-10-603-062-2
12	43	91.5	9	5	US-10-603-062-102
13	43	91.5	10	3	US-09-888-721-8
14	43	91.5	10	3	US-10-668-400-10
15	43	91.5	10	5	US-10-484-063-18
16	43	91.5	11	3	US-09-759-960-31
17	43	91.5	11	3	US-09-759-960-33
18	43	91.5	11	5	US-10-603-062-31
19	43	91.5	11	5	US-10-603-062-33
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22	43	91.5	13	3	US-09-759-960-4
23	43	91.5	13	3	US-09-759-960-19
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26	43	91.5	13	3	US-10-603-062-3
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29	43	91.5	13	5	US-10-603-062-12	Sequence 19, Appl
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32	43	91.5	15	4	US-10-648-547-71	Sequence 71, Appl
33	43	91.5	15	4	US-10-648-547-84	Sequence 84, Appl
34	43	91.5	15	4	US-10-476-570-52	Sequence 52, Appl
35	43	91.5	15	4	US-10-306-541-71	Sequence 71, Appl
36	43	91.5	15	4	US-10-306-541-84	Sequence 84, Appl
37	43	91.5	16	3	US-09-759-960-25	Sequence 25, Appl
38	43	91.5	16	3	US-09-909-460-109	Sequence 109, App
39	43	91.5	16	3	US-09-872-836-109	Sequence 109, App
40	43	91.5	16	5	US-10-603-062-25	Sequence 25, Appl
41	43	91.5	16	5	US-10-751-845-69	Sequence 69, Appl
42	43	91.5	17	5	US-10-476-570-58	Sequence 58, Appl
43	43	91.5	19	5	US-10-858-384-18	Sequence 18, Appl
44	43	91.5	19	5	US-10-484-063-19	Sequence 19, Appl
45	43	91.5	20	5	US-10-432-465-51	Sequence 51, Appl
46	43	91.5	21	4	US-10-476-570-18	Sequence 18, Appl
47	43	91.5	21	5	US-10-890-526-76	Sequence 76, Appl
48	43	91.5	21	5	US-09-759-960-6	Sequence 6, Appli
49	43	91.5	38	3	US-10-603-062-6	Sequence 6, Appli
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51	43	91.5	98	3	US-09-820-765-4	Sequence 4, Appli
52	43	91.5	98	3	US-09-824-017-4	Sequence 4, Appli
53	43	91.5	98	3	US-09-986-118A-4	Sequence 8, Appli
54	43	91.5	98	3	US-10-267-311-8	Sequence 8, Appli
55	43	91.5	98	4	US-10-177-390-8	Sequence 19, Appl
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58	43	91.5	98	4	US-10-654-129-4	Sequence 19, Appl
59	43	91.5	98	4	US-10-681-410-19	Sequence 3, Appli
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61	43	91.5	98	4	US-10-479-541-5	Sequence 4, Appli
62	43	91.5	98	5	US-10-042-526A-4	Sequence 1, Appli
63	43	91.5	98	5	US-10-657-399-1	Sequence 12, Appl
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66	43	91.5	98	5	US-10-343-448-5	Sequence 8, Appli
67	43	91.5	98	5	US-10-679-956-8	Sequence 17, Appl
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70	43	91.5	99	4	US-10-115-440-7	Sequence 12, App
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75	43	91.5	185	4	US-11-072-288-2	Sequence 35, Appl
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78	43	91.5	220	4	US-10-000-903-1	Sequence 157, App
79	43	91.5	220	5	US-10-000-903-8	Sequence 158, App
80	43	91.5	220	5	US-10-899-771-1	Sequence 12, Appl
81	43	91.5	220	5	US-10-899-771-8	Sequence 160, App
82	43	91.5	220	5	US-10-899-771-10	Sequence 1, Appli
83	43	91.5	226	5	US-10-751-845-157	Sequence 33, Appl
84	43	91.5	236	5	US-10-751-845-158	Sequence 25, Appl
85	43	91.5	237	5	US-10-000-903-12	Sequence 25, Appl
86	43	91.5	239	5	US-10-899-771-12	Sequence 6, Appli
87	43	91.5	261	5	US-10-751-845-160	Sequence 6, Appli
88	43	91.5	266	4	US-09-367-309A-1	Sequence 14, Appl
89	43	91.5	289	4	US-10-115-440-5	Sequence 14, Appl
90	43	91.5	295	4	US-10-267-311-33	Sequence 14, Appl
91	43	91.5	295	5	US-10-679-956-33	Sequence 14, Appl
92	43	91.5	324	5	US-10-267-311-25	Sequence 14, Appl
93	43	91.5	324	5	US-10-679-956-25	Sequence 14, Appl
94	43	91.5	334	4	US-10-472-724-10	Sequence 14, Appl
95	43	91.5	371	4	US-10-000-903-6	Sequence 14, Appl
96	43	91.5	371	5	US-10-899-771-6	Sequence 14, Appl
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101	43	91.5	493	5	US-10-679-956-19	Sequence 19, Appl	174	34	72.3	9	5	US-10-871-138-50	Sequence 50, Appl
102	43	91.5	639	4	US-10-267-311-17	Sequence 17, Appl	175	34	72.3	9	5	US-10-751-845-104	Sequence 104, Appl
103	43	91.5	639	5	US-10-679-956-17	Sequence 17, Appl	176	34	72.3	10	3	US-09-891-823-12	Sequence 12, Appl
104	43	91.5	641	4	US-10-267-311-51	Sequence 51, Appl	177	34	72.3	10	3	US-09-891-823-46	Sequence 46, Appl
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106	43	91.5	647	4	US-10-267-311-53	Sequence 53, Appl	179	34	72.3	10	4	US-10-365-908-46	Sequence 46, Appl
107	43	91.5	647	5	US-10-679-956-53	Sequence 53, Appl	180	34	72.3	10	5	US-10-871-138-12	Sequence 12, Appl
108	43	91.5	648	4	US-10-267-311-29	Sequence 29, Appl	181	34	72.3	10	5	US-10-871-138-46	Sequence 46, Appl
109	43	91.5	648	5	US-10-679-956-29	Sequence 29, Appl	182	34	72.3	12	3	US-09-872-836-108	Sequence 108, Appl
110	43	91.5	711	4	US-10-267-311-41	Sequence 41, Appl	183	34	72.3	12	5	US-10-758-970-108	Sequence 108, Appl
111	43	91.5	711	5	US-10-679-956-41	Sequence 41, Appl	184	34	72.3	12	5	US-10-751-845-62	Sequence 62, Appl
112	43	91.5	724	4	US-10-267-311-45	Sequence 45, Appl	185	34	72.3	12	5	US-10-776-521B-376	Sequence 376, Appl
113	43	91.5	724	5	US-10-679-956-45	Sequence 45, Appl	186	34	72.3	19	5	US-10-776-521B-376	Sequence 377, Appl
114	43	91.5	805	4	US-10-367-095-9	Sequence 9, Appl1	187	34	72.3	20	5	US-10-425-115-302291	Sequence 22921, Appl
115	43	91.5	805	4	US-10-368-046-9	Sequence 9, Appl1	188	34	72.3	93	4	US-10-425-115-302291	Sequence 225721, Appl
116	43	91.5	805	4	US-10-367-367-9	Sequence 9, Appl1	189	34	72.3	126	4	US-10-425-115-225721	Sequence 224835, Appl
117	43	91.5	805	5	US-10-918-337-9	Sequence 9, Appl1	190	34	72.3	224	4	US-10-369-493-44835	Sequence 4498, Appl
118	39	83.0	252	4	US-10-437-963-117646	Sequence 117646, Appl1	191	34	72.3	312	4	US-10-369-493-7257	Sequence 7257, Appl
119	38	80.9	9	3	US-09-891-823-21	Sequence 21, Appl	192	34	72.3	312	4	US-10-370-100-1	Sequence 1, Appl1
120	38	80.9	9	4	US-10-365-908-21	Sequence 21, Appl	193	34	72.3	458	4	US-11-102-757-1	Sequence 1, Appl1
121	38	80.9	9	4	US-10-777-053-548	Sequence 548, Appl	194	34	72.3	458	6	US-09-866-5728A-71	Sequence 71, Appl1
122	38	80.9	9	4	US-10-837-217-548	Sequence 548, Appl	195	34	72.3	460	3	US-09-866-570A-71	Sequence 71, Appl1
123	38	80.9	9	5	US-10-871-138-21	Sequence 21, Appl	196	34	72.3	460	3	US-10-166-984-71	Sequence 71, Appl1
124	37	78.7	98	5	US-10-367-057-12	Sequence 12, Appl	197	34	72.3	460	4	US-10-166-984-71	Sequence 71, Appl1
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130	36	76.6	117	4	US-10-425-115-336071	Sequence 336071, Appl	203	34	70.2	9	5	US-10-884-862-228	Sequence 228, Appl
131	36	76.6	117	5	US-10-732-923-1829	Sequence 1829, Appl	204	33	70.2	9	5	US-10-884-862-273	Sequence 273, Appl
132	35	74.5	104	4	US-10-264-237-2079	Sequence 2079, Appl	205	33	70.2	59	4	US-10-425-115-295016	Sequence 295016, Appl
133	35	74.5	145	4	US-10-424-599-215122	Sequence 215122, Appl	206	33	70.2	75	4	US-10-083-357-794	Sequence 794, Appl
134	35	74.5	162	4	US-10-425-115-301498	Sequence 301498, Appl	207	33	70.2	76	4	US-10-424-599-185324	Sequence 185324, Appl
135	35	74.5	189	5	US-10-450-763-37926	Sequence 37926, A	208	33	70.2	88	4	US-10-424-599-178446	Sequence 178446, Appl
136	35	74.5	307	4	US-10-002-631C-30	Sequence 30, Appl	209	33	70.2	88	4	US-09-796-692-877	Sequence 877, Appl
137	35	74.5	327	4	US-10-264-049-2741	Sequence 2741, Appl	210	33	70.2	94	3	US-10-040-862-877	Sequence 877, Appl
138	35	74.5	473	3	US-09-374-046A-68	Sequence 68, Appl	211	33	70.2	94	4	US-10-057-475B-877	Sequence 877, Appl
139	35	74.5	473	4	US-10-616-263-68	Sequence 68, Appl	212	33	70.2	94	4	US-10-154-884B-877	Sequence 877, Appl
140	35	74.5	485	4	US-10-191-398A-5	Sequence 5, Appl1	213	33	70.2	94	4	US-10-764-324-877	Sequence 877, Appl
141	35	74.5	487	4	US-10-415-378-12	Sequence 12, Appl	214	33	70.2	95	4	US-10-425-115-25602	Sequence 25602, Appl
142	35	74.5	487	4	US-10-648-593-250	Sequence 250, Appl	215	33	70.2	95	4	US-10-425-115-316120	Sequence 316120, Appl
143	35	74.5	487	4	US-10-343-116-2	Sequence 2, Appl1	216	33	70.2	103	4	US-10-424-599-185002	Sequence 185002, Appl
144	35	74.5	506	4	US-10-424-599-278611	Sequence 278611, Appl	217	33	70.2	106	4	US-10-425-115-30917	Sequence 30917, Appl
145	35	74.5	506	5	US-10-450-763-31304	Sequence 31304, A	218	33	70.2	108	3	US-09-796-692-1071	Sequence 1071, Appl
146	34	72.3	8	3	US-09-759-960-20	Sequence 20, Appl	219	33	70.2	108	4	US-10-057-475B-1071	Sequence 1071, Appl
147	34	72.3	8	3	US-09-835-853-21	Sequence 21, Appl	220	33	70.2	108	4	US-10-057-475B-1071	Sequence 1071, Appl
148	34	72.3	8	3	US-09-909-460-107	Sequence 107, Appl	221	33	70.2	108	4	US-10-154-884B-1071	Sequence 1071, Appl
149	34	72.3	8	3	US-09-872-836-107	Sequence 107, Appl	222	33	70.2	108	4	US-10-764-324-1071	Sequence 1071, Appl
150	34	72.3	8	4	US-10-106-487-20	Sequence 20, Appl	223	33	70.2	108	4	US-10-764-324-1071	Sequence 1071, Appl
151	34	72.3	8	4	US-10-133-210-276	Sequence 276, Appl	224	33	70.2	119	3	US-09-796-692-1736	Sequence 1736, Appl
152	34	72.3	8	4	US-10-465-811-89	Sequence 89, Appl	225	33	70.2	119	4	US-10-057-475B-1736	Sequence 1736, Appl
153	34	72.3	8	4	US-10-388-337-20	Sequence 20, Appl	226	33	70.2	119	4	US-10-154-884B-1736	Sequence 1736, Appl
154	34	72.3	8	4	US-10-472-661-8	Sequence 8, Appl	227	33	70.2	119	4	US-10-764-324-1736	Sequence 1736, Appl
155	34	72.3	8	4	US-10-777-053-544	Sequence 544, Appl	228	33	70.2	119	4	US-09-796-692-1065	Sequence 1065, Appl
156	34	72.3	8	4	US-10-837-217-544	Sequence 544, Appl	229	33	70.2	120	3	US-10-040-862-1065	Sequence 1065, Appl
157	34	72.3	8	5	US-10-603-062-20	Sequence 20, Appl	230	33	70.2	120	4	US-10-057-475B-1065	Sequence 1065, Appl
158	34	72.3	8	5	US-10-758-970-107	Sequence 107, Appl	231	33	70.2	120	4	US-10-154-884B-1065	Sequence 1065, Appl
159	34	72.3	8	5	US-10-751-845-61	Sequence 61, Appl	232	33	70.2	120	4	US-10-764-324-1065	Sequence 1065, Appl
160	34	72.3	8	5	US-10-776-521B-365	Sequence 365, Appl	233	33	70.2	123	4	US-10-425-115-221325	Sequence 221325, Appl
161	34	72.3	8	5	US-10-820-067A-876	Sequence 876, Appl	234	33	70.2	123	4	US-10-425-115-316118	Sequence 316118, Appl
162	34	72.3	9	3	US-09-759-960-21	Sequence 21, Appl	235	33	70.2	149	3	US-09-796-692-1077	Sequence 1077, Appl
163	34	72.3	9	3	US-09-759-960-27	Sequence 27, Appl	236	33	70.2	149	3	US-10-040-862-1077	Sequence 1077, Appl
164	34	72.3	9	3	US-09-891-823-50	Sequence 50, Appl	237	33	70.2	149	4	US-10-057-475B-1077	Sequence 1077, Appl
165	34	72.3	9	4	US-10-128-711-70	Sequence 70, Appl	238	33	70.2	149	4	US-10-154-884B-1077	Sequence 1077, Appl
166	34	72.3	9	4	US-10-365-908-50	Sequence 50, Appl	239	33	70.2	149	4	US-10-764-324-1077	Sequence 1077, Appl
167	34	72.3	9	4	US-10-472-661-9	Sequence 9, Appl1	240	33	70.2	149	4	US-09-796-692-1642	Sequence 1642, Appl
168	34	72.3	9	4	US-10-777-053-327	Sequence 327, Appl	241	33	70.2	155	3	US-10-040-862-1642	Sequence 1642, Appl
169	34	72.3	9	4	US-10-777-053-494	Sequence 494, Appl	242	33	70.2	155	4	US-10-057-475B-1642	Sequence 1642, Appl
170	34	72.3	9	4	US-10-837-217-327	Sequence 327, Appl	243	33	70.2	155	4	US-10-154-884B-1642	Sequence 1642, Appl
171	34	72.3	9	5	US-10-837-217-494	Sequence 21, Appl	244	33	70.2	155	4	US-10-764-324-1642	Sequence 1642, Appl
172	34	72.3	9	5	US-10-603-062-21	Sequence 21, Appl	245	33	70.2	155	4	US-09-796-692-684	Sequence 684, Appl
173	34	72.3	9	5	US-10-603-062-27	Sequence 27, Appl	246	33	70.2	161	3		

247	33	70.2	161	4	US-10-040-862-684	Sequence 684, App	320	32	68.1	9	4	US-10-365-908-74	Sequence 74, Appl
248	33	70.2	161	4	US-10-057-475B-684	Sequence 684, App	321	32	68.1	9	4	US-10-044-844-125	Sequence 125, Appl
249	33	70.2	161	4	US-10-154-884B-684	Sequence 684, App	322	32	68.1	9	5	US-10-871-138-74	Sequence 74, Appl
250	33	70.2	161	4	US-10-764-324-684	Sequence 684, App	323	32	68.1	9	5	US-10-846-079-125	Sequence 125, App
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253	33	70.2	193	4	US-10-437-963-152967	Sequence 152967, A	326	32	68.1	63	4	US-10-424-599-214149	Sequence 214149, A
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256	33	70.2	227	5	US-10-733-923-15687	Sequence 15687, A	329	32	68.1	74	4	US-10-425-115-341782	Sequence 341782, A
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258	33	70.2	247	4	US-10-424-599-198295	Sequence 198295, App	331	32	68.1	82	4	US-10-424-599-229676	Sequence 229676, A
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262	33	70.2	253	5	US-10-733-923-15686	Sequence 15686, A	335	32	68.1	103	4	US-10-156-761-13337	Sequence 13327, A
263	33	70.2	297	3	US-09-836-544-112	Sequence 12, Appl	336	32	68.1	106	4	US-10-425-115-159452	Sequence 359452, A
264	33	70.2	297	4	US-10-205-823-269	Sequence 269, App	337	32	68.1	107	5	US-10-732-923-15757	Sequence 15757, A
265	33	70.2	297	4	US-10-207-653-131	Sequence 131, App	338	32	68.1	114	4	US-09-738-826-3516	Sequence 3516, App
266	33	70.2	297	4	US-10-156-136-38	Sequence 38, Appl	339	32	68.1	114	4	US-10-424-599-147618	Sequence 147618, App
267	33	70.2	297	4	US-10-327-663-4	Sequence 4, Appl	340	32	68.1	114	5	US-10-484-672-180	Sequence 16332, App
268	33	70.2	297	4	US-10-409-598-5	Sequence 5, Appl	341	32	68.1	129	4	US-10-425-115-20853	Sequence 300853, A
269	33	70.2	297	4	US-10-433-287-40	Sequence 40, Appl	342	32	68.1	157	4	US-10-425-115-287068	Sequence 287068, A
270	33	70.2	297	5	US-10-472-127-1515	Sequence 1515, App	343	32	68.1	187	4	US-10-425-115-239049	Sequence 239049, A
271	33	70.2	297	5	US-10-473-127-1516	Sequence 1516, App	344	32	68.1	198	4	US-10-508-109-19	Sequence 15707, A
272	33	70.2	297	5	US-10-473-127-1517	Sequence 1517, App	345	32	68.1	198	5	US-10-508-109-19	Sequence 19, Appl
273	33	70.2	297	5	US-10-473-127-1518	Sequence 1518, App	346	32	68.1	203	3	US-09-350-874-12	Sequence 12, Appl
274	33	70.2	297	5	US-10-473-127-1519	Sequence 1519, App	347	32	68.1	203	4	US-10-106-989-12	Sequence 12, Appl
275	33	70.2	297	5	US-10-473-127-1527	Sequence 1527, App	348	32	68.1	225	4	US-10-424-599-230376	Sequence 230376, A
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278	33	70.2	297	5	US-10-473-127-1530	Sequence 1530, App	351	32	68.1	237	4	US-10-424-599-251112	Sequence 251112, A
279	33	70.2	297	5	US-10-473-127-1531	Sequence 1531, App	352	32	68.1	245	3	US-09-350-874-4	Sequence 4, Appl
280	33	70.2	297	5	US-10-473-127-1533	Sequence 1533, App	353	32	68.1	245	4	US-10-106-989-4	Sequence 4, Appl
281	33	70.2	297	5	US-10-473-127-1534	Sequence 1534, App	354	32	68.1	250	4	US-10-424-599-330375	Sequence 230375, A
282	33	70.2	297	5	US-10-473-127-1535	Sequence 1535, App	355	32	68.1	250	5	US-10-732-923-15706	Sequence 15706, A
283	33	70.2	297	5	US-10-884-862-14	Sequence 14, Appl	356	32	68.1	251	4	US-10-425-114-17179	Sequence 17179, A
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296	33	70.2	508	4	US-10-369-493-12879	Sequence 12879, A	369	32	68.1	261	4	US-10-425-114-54974	Sequence 54974, A
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304	33	70.2	901	4	US-10-437-963-112120	Sequence 131210, A	377	32	68.1	294	4	US-10-425-114-47103	Sequence 47103, A
305	33	70.2	901	6	US-11-093-888-8	Sequence 8, Appl	378	32	68.1	294	4	US-10-425-115-239042	Sequence 239042, A
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307	33	70.2	904	6	US-11-093-888-55	Sequence 55, Appl	380	32	68.1	315	5	US-10-508-109-16	Sequence 16, Appl
308	33	70.2	915	4	US-10-174-363-40	Sequence 40, Appl	381	32	68.1	318	4	US-10-369-493-2086	Sequence 2086, App
309	33	70.2	915	6	US-11-093-888-40	Sequence 40, Appl	382	32	68.1	323	3	US-09-815-242-11181	Sequence 11181, A
310	33	70.2	916	4	US-11-093-888-40	Sequence 40, Appl	383	32	68.1	323	4	US-10-282-122A-58411	Sequence 58411, A
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316	33	70.2	1241	4	US-10-437-963-115698	Sequence 115698, A	389	32	68.1	333	4	US-10-225-5678A-779	Sequence 779, App
317	33	70.2	1440	4	US-10-437-963-153321	Sequence 153321, A	390	32	68.1	333	4	US-10-282-122A-77870	Sequence 77870, A
318	33	70.2	1958	6	US-11-097-143-11610	Sequence 11610, A	391	32	68.1	333	4	US-10-433-561-32	Sequence 32, Appl
319	32	68.1	9	3	US-09-891-823-74	Sequence 74, Appl	392	32	68.1	333	4	US-10-477-726-4	Sequence 4, Appl

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394	32	68.1	333	5	US-10-723-860-2738	Sequence 2738, Ap	467	31	66.0	109	4	US-10-425-115-327402	Sequence 327402,
395	32	68.1	333	5	US-10-768-197-75	Sequence 75, Appl	468	31	66.0	115	4	US-10-424-599-280769	Sequence 280769,
396	32	68.1	333	5	US-10-500-175A-4	Sequence 4, Appl1	469	31	66.0	123	3	US-09-864-408A-7236	Sequence 7236, Ap
397	32	68.1	333	5	US-10-311-0198-4	Sequence 4, Appl1	470	31	66.0	123	4	US-10-424-599-221252	Sequence 221252,
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399	32	68.1	335	4	US-10-282-122A-72702	Sequence 72702, A	472	31	66.0	158	4	US-10-424-599-253192	Sequence 253192,
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401	32	68.1	337	4	US-10-282-122A-59532	Sequence 59532, A	474	31	66.0	174	4	US-10-767-701-45672	Sequence 45672, A
402	32	68.1	347	5	US-10-788-197-77	Sequence 77, Appl	475	31	66.0	175	3	US-09-793-232-2	Sequence 2, Appl1
403	32	68.1	364	4	US-10-633-438-56	Sequence 56, Appl	476	31	66.0	175	4	US-10-144-929-106	Sequence 106, Ap
404	32	68.1	364	5	US-10-798-197-79	Sequence 79, Appl	477	31	66.0	175	4	US-10-144-929-106	Sequence 106, Ap
405	32	68.1	364	5	US-10-901-772-56	Sequence 56, Appl	478	31	66.0	175	5	US-10-866-831-106	Sequence 106, Ap
406	32	68.1	378	5	US-10-768-197-81	Sequence 81, Appl	479	31	66.0	175	5	US-10-287-436A-409	Sequence 409, Ap
407	32	68.1	383	4	US-10-437-963-153602	Sequence 153602,	480	31	66.0	182	4	US-10-287-436A-1107	Sequence 1107, Ap
408	32	68.1	400	4	US-10-369-493-4601	Sequence 4601, Ap	481	31	66.0	192	3	US-09-931-457A-56	Sequence 56, Appl
409	32	68.1	405	5	US-10-732-923-4163	Sequence 4163, Ap	482	31	66.0	197	4	US-10-017-161-576	Sequence 576, Ap
410	32	68.1	411	5	US-10-732-923-23728	Sequence 23728, A	483	31	66.0	198	4	US-10-425-115-256924	Sequence 256924,
411	32	68.1	411	5	US-10-732-923-4162	Sequence 4162, Ap	484	31	66.0	198	4	US-10-425-115-256924	Sequence 256924,
412	32	68.1	429	4	US-10-369-493-7358	Sequence 7358, Ap	485	31	66.0	206	4	US-10-338-075-1311	Sequence 1311, Ap
413	32	68.1	437	5	US-10-439-247-22	Sequence 22, Appl	486	31	66.0	214	4	US-10-424-599-175509	Sequence 175509,
414	32	68.1	453	4	US-10-732-923-11171	Sequence 11171, A	487	31	66.0	224	4	US-10-425-114-50340	Sequence 50340, A
415	32	68.1	458	4	US-10-282-122A-49157	Sequence 49157, A	488	31	66.0	225	4	US-10-156-761-11134	Sequence 11134, A
416	32	68.1	512	5	US-10-957-828-4	Sequence 4, Appl1	489	31	66.0	225	4	US-10-424-599-177258	Sequence 177258,
417	32	68.1	534	6	US-11-037-143-17595	Sequence 17595, A	490	31	66.0	230	5	US-10-472-928-408	Sequence 408, Ap
418	32	68.1	548	4	US-10-437-963-152715	Sequence 152715,	491	31	66.0	234	4	US-10-425-115-216320	Sequence 216320,
419	32	68.1	601	4	US-10-424-599-272365	Sequence 272365,	492	31	66.0	235	3	US-09-769-787-58	Sequence 58, Appl
420	32	68.1	604	3	US-09-750-240-4	Sequence 4, Appl1	493	31	66.0	235	3	US-09-769-787-58	Sequence 59, Appl
421	32	68.1	696	4	US-10-437-963-104244	Sequence 104244,	494	31	66.0	250	4	US-10-425-114-54530	Sequence 54530, A
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423	32	68.1	705	4	US-10-425-115-250422	Sequence 250422,	496	31	66.0	252	4	US-10-437-963-200712	Sequence 200712,
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430	32	68.1	959	4	US-11-093-888-22	Sequence 22, Appl	503	31	66.0	306	3	US-09-931-457A-113	Sequence 13, Appl
431	32	68.1	1012	4	US-10-437-963-185988	Sequence 185988,	504	31	66.0	311	4	US-10-156-761-11339	Sequence 13139, A
432	32	68.1	1013	4	US-10-437-963-158978	Sequence 158978,	505	31	66.0	315	4	US-10-023-597-38	Sequence 38, Appl
433	32	68.1	1024	4	US-10-437-963-158813	Sequence 158813,	506	31	66.0	315	4	US-10-023-597-40	Sequence 40, Appl
434	32	68.1	1024	4	US-10-437-963-184022	Sequence 184022,	507	31	66.0	315	5	US-10-774-355A-1162	Sequence 1362, Ap
435	32	68.1	1141	5	US-10-732-923-18071	Sequence 18071, A	508	31	66.0	321	3	US-09-931-457A-9	Sequence 9, Appl1
436	32	68.1	1167	3	US-09-750-240-6	Sequence 6, Appl1	509	31	66.0	321	4	US-10-369-493-3708	Sequence 3708, Ap
437	32	68.1	1167	3	US-09-750-240-13	Sequence 13, Appl	510	31	66.0	326	4	US-10-337-963-198521	Sequence 198521,
438	32	68.1	1168	3	US-09-750-240-11	Sequence 11, Appl	511	31	66.0	339	4	US-10-369-493-17443	Sequence 17443, A
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441	32	68.1	1168	5	US-10-991-327-2	Sequence 2, Appl1	514	31	66.0	336	5	US-10-480-739A-88	Sequence 88, Appl
442	32	68.1	1168	5	US-10-745-237-280	Sequence 280, Ap	515	31	66.0	342	4	US-10-369-493-14472	Sequence 14472, A
443	32	68.1	1394	3	US-09-945-917-57	Sequence 57, Appl	516	31	66.0	373	4	US-10-282-122A-50193	Sequence 50193, A
444	32	68.1	1449	3	US-09-945-917-58	Sequence 58, Appl	517	31	66.0	383	5	US-10-501-282-3362	Sequence 3862, Ap
445	32	68.1	1528	3	US-09-945-917-4	Sequence 3, Appl1	518	31	66.0	392	5	US-10-845-366-18	Sequence 18, Appl
446	32	68.1	1583	3	US-09-945-917-4	Sequence 4, Appl1	519	31	66.0	400	3	US-09-812-272-2	Sequence 2, Appl1
447	31	66.0	13	4	US-10-447-161-145	Sequence 15, Ap	520	31	66.0	400	3	US-09-971-228-12	Sequence 12, Appl
448	31	66.0	28	4	US-10-144-929-158	Sequence 158, Ap	521	31	66.0	400	6	US-11-100-593-1	Sequence 1, Appl1
449	31	66.0	28	4	US-10-144-929-158	Sequence 158, Ap	522	31	66.0	404	4	US-10-369-493-15092	Sequence 15092, A
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465	31	66.0	108	4	US-10-425-115-211472	Sequence 211472,	538	31	66.0	503	4	US-10-282-122A-74219	Sequence 74219, A

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544	31	66.0	518	4	US-10-425-114-37581	Sequence 37581, A	617	30	63.8	78	4	US-10-335-977-6417	Sequence 6417, Ap
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554	31	66.0	581	6	US-11-097-143-31014	Sequence 31014, A	627	30	63.8	94	4	US-10-424-599-231652	Sequence 231652,
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558	31	66.0	618	5	US-10-937-239-2	Sequence 2, Appli	631	30	63.8	107	4	US-10-156-761-11754	Sequence 11754, A
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565	31	66.0	808	4	US-10-437-963-182199	Sequence 182199,	638	30	63.8	115	4	US-10-437-963-112021	Sequence 112021,
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576	31	66.0	961	4	US-10-437-963-183043	Sequence 183043,	649	30	63.8	142	4	US-10-424-599-191466	Sequence 191466,
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583	31	66.0	1045	4	US-10-437-963-182546	Sequence 182546,	656	30	63.8	159	5	US-10-424-599-207206	Sequence 207206,
584	31	66.0	1045	4	US-10-437-963-185645	Sequence 185645,	657	30	63.8	164	4	US-10-101-464A-539	Sequence 539, App
585	31	66.0	1054	4	US-10-437-963-183722	Sequence 183722,	658	30	63.8	165	4	US-10-864-252-539	Sequence 539, App
586	31	66.0	1060	4	US-10-437-963-184938	Sequence 184938,	659	30	63.8	165	5	US-10-425-115-321512	Sequence 321512,
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589	31	66.0	1199	5	US-10-887-104-1	Sequence 1, Appli	662	30	63.8	172	5	US-10-101-464A-536	Sequence 536, App
590	31	66.0	1216	4	US-10-389-566-2120	Sequence 2120, Ap	663	30	63.8	172	5	US-10-864-252-536	Sequence 6812, Ap
591	31	66.0	1219	4	US-10-300-473-6	Sequence 6, Appli	664	30	63.8	174	4	US-11-097-143-148012	Sequence 148012,
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595	30	63.8	9	5	US-10-472-928-568	Sequence 568, App	668	30	63.8	177	4	US-10-101-464A-539	Sequence 146, App
596	30	63.8	11	4	US-10-472-928-568	Sequence 7, Appli	669	30	63.8	177	5	US-10-501-282-3908	Sequence 3908, Ap
597	30	63.8	15	4	US-10-648-547-75	Sequence 75, Appli	670	30	63.8	178	4	US-10-425-115-324123	Sequence 234123,
598	30	63.8	15	4	US-10-306-541-75	Sequence 75, Appli	671	30	63.8	179	4	US-10-437-963-156155	Sequence 156155,
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602	30	63.8	47	3	US-09-984-490-174	Sequence 174, App	675	30	63.8	203	3	US-09-712-353-306	Sequence 206, App
603	30	63.8	49	4	US-10-424-599-284711	Sequence 284711,	676	30	63.8	203	4	US-10-425-115-208258	Sequence 208258,
604	30	63.8	61	4	US-10-437-963-141152	Sequence 141152,	677	30	63.8	206	5	US-10-733-923-15664	Sequence 15664, A
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611	30	63.8	68	4	US-10-424-599-237450	Sequence 237450,	684	30	63.8	226	4	US-10-424-599-176025	Sequence 176025,

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686	30	63.8	228	4	US-10-205-823-455	Sequence 455, App	759	30	63.8	504	5	US-10-810-352-32	Sequence 32, App1
687	30	63.8	228	6	US-11-051-454-455	Sequence 455, App	760	30	63.8	505	3	US-09-931-457A-54	Sequence 54, App1
688	30	63.8	231	3	US-09-925-301-1306	Sequence 1306, App	761	30	63.8	524	3	US-09-761-640-9	Sequence 9, App1
689	30	63.8	231	3	US-09-764-864-837	Sequence 837, App	762	30	63.8	528	6	US-11-097-143-24504	Sequence 24504, A
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691	30	63.8	221	4	US-10-106-698-6403	Sequence 6403, Ap	764	30	63.8	576	3	US-09-793-451-4	Sequence 4, App1
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693	30	63.8	233	3	US-09-350-874-51	Sequence 51, App1	766	30	63.8	576	4	US-10-283-722-4	Sequence 4, App1
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696	30	63.8	240	4	US-10-437-963-186237	Sequence 186237,	769	30	63.8	584	5	US-10-450-763-50230	Sequence 50230, A
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595 29 61.7 270 4 US-10-282-122A-63070 Sequence 63070, A  
596 29 61.7 270 4 US-10-424-599-216433 Sequence 216433, A  
597 29 61.7 270 4 US-10-080-170-194 Sequence 194, App  
598 29 61.7 270 4 US-10-468-356-194 Sequence 194, App  
599 29 61.7 271 4 US-10-424-599-245009 Sequence 245009, A  
1000 29 61.7 273 4 US-10-424-599-225203 Sequence 225203, A

## ALIGNMENTS

RESULT 1  
US-09-759-960-2  
; Sequence 2, Application US/09759960  
; Patent No. US20010006639A1  
; GENERAL INFORMATION:  
; APPLICANT: Urban, Robert G.  
; APPLICANT: Chicz, Roman M.  
; APPLICANT: Collins, Edward J.  
; APPLICANT: Hedley, Mary Lynn  
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HIV E7  
; TITLE OF INVENTION: PROTEIN  
; NUMBER OF SEQUENCES: 33  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fish & Richardson, P.C.  
; STREET: 225 Franklin Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: US  
; ZIP: 02110-2804  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: Windows95  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/759,960  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 09/169,425  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fraser, Janis K.  
; REGISTRATION NUMBER: 34,819  
; REFERENCE/DOCKET NUMBER: 08191/004002  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-542-5070  
; TELEFAX: 617-543-8906  
; TELEX: 200154  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 9 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide

US-09-759-960-2  
Query Match 91.5%; Score 43; DB 3; Length 9;  
Best Local Similarity 88.9%; Pred. No. 1.7e+06;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 1 TLGIAPIC 9

RESULT 2  
US-09-909-460-111  
; Sequence 111, Application US/09909460  
; Publication No. US20020182258A1  
; GENERAL INFORMATION:  
; APPLICANT: Lunsford, Lynn B.  
; APPLICANT: Putnam, David  
; APPLICANT: Hedley, Mary Lynn  
; TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY OF NUCLEIC  
; TITLE OF INVENTION: ACID  
; FILE REFERENCE: 08191/014001  
; CURRENT APPLICATION NUMBER: US/09/909,460  
; CURRENT FILING DATE: 2001-07-18  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/321,346  
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-05-27  
; SOFTWARE: FastSeq for Windows Version 3.0  
; NUMBER OF SEQ ID NOS: 114  
; SEQ ID NO 111  
; LENGTH: 9  
; TYPE: PRT  
; ORGANISM: Human papilloma virus  
US-09-909-460-111

Query Match 91.5%; Score 43; DB 3; Length 9;  
Best Local Similarity 88.9%; Pred. No. 1.7e+06;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 1 TLGIAPIC 9

RESULT 3  
US-09-872-836-115  
; Sequence 115, Application US/09872836  
; Publication No. US20040142475A1  
; GENERAL INFORMATION:  
; APPLICANT: Barman, Shikha P.  
; APPLICANT: McKeever, Una  
; APPLICANT: Hedley, Mary Lynne  
; TITLE OF INVENTION: DELIVERY SYSTEMS FOR BIOACTIVE AGENTS  
; FILE REFERENCE: 08191-018001  
; CURRENT APPLICATION NUMBER: US/09/872,836  
; CURRENT FILING DATE: 2001-06-01  
; PRIOR APPLICATION NUMBER: US 60/208,830  
; PRIOR FILING DATE: 2000-06-02  
; NUMBER OF SEQ ID NOS: 120  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 115  
; LENGTH: 9  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-872-836-115

Query Match 91.5%; Score 43; DB 3; Length 9;  
Best Local Similarity 88.9%; Pred. No. 1.7e+06;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 1 TLGIAPIC 9

RESULT 4  
US-10-128-711-68  
; Sequence 68, Application US/10128711  
; Publication No. US2003009634A1  
; GENERAL INFORMATION:  
; APPLICANT: VITIELLO, Maria A.  
; CHESTNUT, Robert W.  
; SETTE, Alessandro D.  
; CELIS, Eteban  
; GRAY, Howard  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ELICITING  
; CTL IMMUNITY  
; NUMBER OF SEQUENCES: 153  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend Kourile and Crew  
; STREET: Steuart Street Tower, One Market Plaza  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: US  
; ZIP: 94105-1493  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/10/128,711  
; FILING DATE: 22-Apr-2002  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/197,484  
; FILING DATE: 16-FEB-1994  
; APPLICATION NUMBER: US 07/935,811  
; FILING DATE: 26-AUG-1992  
; APPLICATION NUMBER: US 07/874,491  
; FILING DATE: 27-APR-1992  
; APPLICATION NUMBER: US 07/827,682  
; FILING DATE: 29-JAN-1992  
; APPLICATION NUMBER: US 07/749,568  
; FILING DATE: 26-AUG-1991  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Parmelee, Steven W.  
; REGISTRATION NUMBER: 31,990  
; REFERENCE/DOCKET NUMBER: 14137-26-4  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (206) 467-9600  
; TELEFAX: (206) 623-6793  
; INFORMATION FOR SEQ ID NO: 68:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 9 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: unknown  
; TOPOLOGY: unknown  
; MOLECULE TYPE: peptide  
; SEQUENCE DESCRIPTION: SEQ ID NO: 68:  
US-10-128-711-68  
Query Match 91.5%; Score 43; DB 4; Length 9;  
Best Local Similarity 88.9%; Pred. No. 1.7e+06;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIAPIC 9  
Db 1 TLGIAPIC 9

RESULT 5  
US-10-472-661-5  
; Sequence 5, Application US/10472661  
; Publication No. US20040106551A1  
; GENERAL INFORMATION:  
; APPLICANT: Khleif, Samir N.

APPLICANT: Bertozsky, Jay A.  
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS IMMUNOREACTIVE  
; FILE REFERENCE: 14014.040602  
; CURRENT APPLICATION NUMBER: US/10/472,661  
; CURRENT FILING DATE: 2003-09-22  
; PRIOR APPLICATION NUMBER: PCT/US02/09261  
; PRIOR FILING DATE: 2002-03-22  
; PRIOR APPLICATION NUMBER: 60/278,520  
; PRIOR FILING DATE: 2001-03-23  
; NUMBER OF SEQ ID NOS: 9  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 5  
; LENGTH: 9  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence; note =  
US-10-472-661-5  
Query Match 91.5%; Score 43; DB 4; Length 9;  
Best Local Similarity 88.9%; Pred. No. 1.7e+06;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIAPIC 9  
Db 1 TLGIAPIC 9

RESULT 6  
US-10-472-661-6  
; Sequence 6, Application US/10472661  
; Publication No. US20040106551A1  
; GENERAL INFORMATION:  
; APPLICANT: Khleif, Samir N.  
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS IMMUNOREACTIVE  
; FILE REFERENCE: 14014.040602  
; CURRENT APPLICATION NUMBER: US/10/472,661  
; CURRENT FILING DATE: 2003-09-22  
; PRIOR APPLICATION NUMBER: PCT/US02/09261  
; PRIOR FILING DATE: 2002-03-22  
; PRIOR APPLICATION NUMBER: 60/278,520  
; PRIOR FILING DATE: 2001-03-23  
; NUMBER OF SEQ ID NOS: 9  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 6  
; LENGTH: 9  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence; note =  
US-10-472-661-6  
Query Match 91.5%; Score 43; DB 4; Length 9;  
Best Local Similarity 88.9%; Pred. No. 1.7e+06;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIAPIC 9  
Db 1 TLGIAPIC 9

RESULT 7  
US-10-777-053-326  
; Sequence 326, Application US/10777053  
; Publication No. US20040132088A1  
; GENERAL INFORMATION:  
; APPLICANT: Simard, John J. L.  
; APPLICANT: Diamond, David C.

```

; APPLICANT: Qiu, Zhiyong
; APPLICANT: Lei, Xiang-Dong
; TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF
; FILE REFERENCE: MANNK.022C1
; CURRENT FILING DATE: 2004-02-10
; PRIOR FILING DATE: 2002-11-07
; PRIOR FILING DATE: 2002-11-07
; PRIOR FILING DATE: 2001-11-07
; NUMBER OF SEQ ID NOS: 979
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 326
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papillomavirus 16
US-10-777-053-326
```

```
Query Match      91.5%; Score 43; DB 4; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.7e+06;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 TLGIIVAPIC 9
        |||||
Db      1 TLGIIVCPIC 9
```

```

RESULT 8
US-10-777-053-490
; Sequence 490, Application US/10777053
; Publication No. US20040132088A1
; GENERAL INFORMATION:
; APPLICANT: Simard, John J. L.
; APPLICANT: Diamond, David C.
; APPLICANT: Qiu, Zhiyong
; APPLICANT: Lei, Xiang-Dong
; TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF
; FILE REFERENCE: MANNK.022C1
; CURRENT FILING DATE: 2004-02-10
; PRIOR FILING DATE: 2002-11-07
; PRIOR FILING DATE: 2002-11-07
; PRIOR FILING DATE: 2001-11-07
; NUMBER OF SEQ ID NOS: 979
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 490
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Himetobi P Virus (HiPV)
US-10-777-053-490
```

```
Query Match      91.5%; Score 43; DB 4; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.7e+06;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 TLGIIVAPIC 9
        |||||
Db      1 TLGIIVCPIC 9
```

```

RESULT 9
US-10-837-217-326
; Sequence 326, Application US/10837217
; Publication No. US20040203051A1
; GENERAL INFORMATION:
; APPLICANT: Simard, John J. L.
; APPLICANT: Diamond, David C.
; APPLICANT: Qiu, Zhiyong
; APPLICANT: Lei, Xiang-Dong
; TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF
```

```

; TITLE OF INVENTION: TARGET-ASSOCIATED ANTIGENS AND METHODS FOR THEIR DESIGN
; FILE REFERENCE: MANNK.022C2
; CURRENT FILING DATE: 2004-04-30
; PRIOR FILING DATE: 2002-11-07
; PRIOR FILING DATE: 2002-11-07
; PRIOR FILING DATE: 2001-11-07
; NUMBER OF SEQ ID NOS: 979
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 326
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papillomavirus 16
US-10-837-217-326
```

```
Query Match      91.5%; Score 43; DB 4; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.7e+06;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 TLGIIVAPIC 9
        |||||
Db      1 TLGIIVCPIC 9
```

```

RESULT 10
US-10-837-217-490
; Sequence 490, Application US/10837217
; Publication No. US20040203051A1
; GENERAL INFORMATION:
; APPLICANT: Simard, John J. L.
; APPLICANT: Diamond, David C.
; APPLICANT: Qiu, Zhiyong
; APPLICANT: Lei, Xiang-Dong
; TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF
; FILE REFERENCE: MANNK.022C2
; CURRENT FILING DATE: 2004-04-30
; PRIOR FILING DATE: 2002-11-07
; PRIOR FILING DATE: 2002-11-07
; PRIOR FILING DATE: 2001-11-07
; NUMBER OF SEQ ID NOS: 979
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 490
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Himetobi P Virus (HiPV)
US-10-837-217-490
```

```
Query Match      91.5%; Score 43; DB 4; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.7e+06;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 TLGIIVAPIC 9
        |||||
Db      1 TLGIIVCPIC 9
```

```

RESULT 11
US-10-603-062-2
; Sequence 2, Application US/10603062
; Publication No. US20040229809A1
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; APPLICANT: Hedley, Mary Lynn
; APPLICANT: Collins, Edward J.
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
```

ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: PASCSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/603,062  
FILING DATE: 24-Jun-2003  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/169,425C  
FILING DATE: 09-OCT-1998  
APPLICATION NUMBER: 60/061,657  
FILING DATE: 09-OCT-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Fraser, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 9 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
US-10-603-062-2

Query Match 91.5%; Score 43; DB 5; Length 9;  
Best Local Similarity 88.9%; Pred. No. 1.7e+06;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 1 TLGIAPIC 9

RESULT 12  
US-10-751-845-102  
; Sequence 102, Application US/10751845  
; Publication No. US20050100928A1  
; GENERAL INFORMATION:  
; APPLICANT: Hedley, Mary Lynne  
; APPLICANT: Urban, Robert G.  
; APPLICANT: Chicz, Roman M.  
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES  
; FILE REFERENCE: 08191-013001  
; CURRENT APPLICATION NUMBER: US/10/751,845  
; PRIOR FILING DATE: 2004-01-05  
; PRIOR APPLICATION NUMBER: US/09/664,225  
; PRIOR FILING DATE: 2000-08-18  
; PRIOR APPLICATION NUMBER: US 60/169,846  
; PRIOR FILING DATE: 1999-12-09  
; PRIOR APPLICATION NUMBER: US 60/154,665  
; PRIOR FILING DATE: 1998-09-16  
; NUMBER OF SEQ ID NOS: 163  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 102  
; LENGTH: 9  
; TYPE: PRT  
; ORGANISM: Human Papilloma virus  
US-10-751-845-102

Query Match 91.5%; Score 43; DB 5; Length 9;  
Best Local Similarity 88.9%; Pred. No. 1.7e+06;

Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 1 TLGIAPIC 9

RESULT 13  
US-09-888-721-8  
; Sequence 8, Application US/09888721  
; Patent No. US20020132990A1  
; GENERAL INFORMATION:  
; APPLICANT: Huston, James S.  
; APPLICANT: Wils, Pierre  
; APPLICANT: Zhu, Quan  
; APPLICANT: Laurent, Olivier  
; APPLICANT: Marasco, Wayne A.  
; APPLICANT: Scherman, Daniel  
; TITLE OF INVENTION: BIOENGINEERED VEHICLES FOR TARGETED NUCLEIC ACID  
; FILE REFERENCE: 23611-A USA  
; CURRENT APPLICATION NUMBER: US/09/888,721  
; PRIOR FILING DATE: 2001-06-25  
; PRIOR APPLICATION NUMBER: 60/213,653  
; PRIOR FILING DATE: 2000-06-23  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 8  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Human papillomavirus  
US-09-888-721-8

Query Match 91.5%; Score 43; DB 3; Length 10;  
Best Local Similarity 88.9%; Pred. No. 0.25;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 2 TLGIAPIC 10

RESULT 14  
US-10-668-400-10  
; Sequence 10, Application US/10668400  
; Publication No. US20040058859A1  
; GENERAL INFORMATION:  
; APPLICANT: Bay, Sylvie  
; APPLICANT: Cantacuzene, Daniele  
; APPLICANT: Leclerc, Claude  
; APPLICANT: Lo-Man, Richard  
; TITLE OF INVENTION: MULTIPLE ANTIGEN GLYCOPEPTIDE CARBOHYDRATE,  
; FILE REFERENCE: 102.166A-1  
; CURRENT APPLICATION NUMBER: US/10/668,400  
; PRIOR FILING DATE: 2003-09-23  
; PRIOR APPLICATION NUMBER: US 09/049,847  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: US 60/041,726  
; PRIOR FILING DATE: 1997-03-27  
; NUMBER OF SEQ ID NOS: 25  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 10  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
; FEATURE: MISC\_FEATURE  
; NAME/KEY: HPV16 E7 PEPTIDE  
; OTHER INFORMATION: HPV16 E7 PEPTIDE  
US-10-668-400-10

Query Match 91.5%; Score 43; DB 4; Length 10;  
Best Local Similarity 88.9%; Pred. No. 0.25;

Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
||| ||| |||  
Db 2 TLGIAPIC 10

RESULT 15  
US-10-484-063-18  
; Sequence 18, Application US/10484063  
; Publication No. US20050048467A1  
; GENERAL INFORMATION:  
; APPLICANT: SASSTRY, K. JAGANNADHA  
; APPLICANT: TORTOLERO-LUNA, GUILLELMO  
; APPLICANT: FOLLEN, MICHELLE  
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED  
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN  
; FILE REFERENCE: UTSC:560US  
; CURRENT APPLICATION NUMBER: US/10/484,063  
; CURRENT FILING DATE: 2004-01-16  
; PRIOR APPLICATION NUMBER: PCT/US02/23198  
; PRIOR FILING DATE: 2002-07-19  
; PRIOR APPLICATION NUMBER: 60/306,809  
; PRIOR FILING DATE: 2001-07-20  
; NUMBER OF SEQ ID NOS: 27  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 18  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Human papillomavirus  
US-10-484-063-18

Query Match 91.5%; Score 43; DB 5; Length 10;  
Best Local Similarity 88.9%; Pred. No. 0.25;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
||| ||| |||  
Db 2 TLGIAPIC 10

RESULT 16  
US-09-759-960-31  
; Sequence 31, Application US/09759960  
; Patent No. US20010006639A1  
; GENERAL INFORMATION:  
; APPLICANT: Urban, Robert G.  
; APPLICANT: Chicz, Roman M.  
; APPLICANT: Collins, Edward J.  
; APPLICANT: Hedley, Mary Lynn  
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
; NUMBER OF SEQUENCES: 33  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSEE: Fish & Richardson, P.C.  
; STREET: 225 Franklin Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: US  
; ZIP: 02110-2804  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: Windows95  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/759,960  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 09/169,425  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fraser, Janis K.

; REGISTRATION NUMBER: 34,819  
; REFERENCE/DOCKET NUMBER: 08191/004002  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-542-5070  
; TELEFAX: 617-543-8906  
; TELEX: 200154  
; INFORMATION FOR SEQ ID NO: 31:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 11 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; NAME/KEY: Other  
; LOCATION: 1...1  
; OTHER INFORMATION: where Xaa at position 1 is Met, Ala, Ser,  
; OTHER INFORMATION: Arg, Lys, Gly, Gln, Asp, or Glu  
US-09-759-960-31

Query Match 91.5%; Score 43; DB 3; Length 11;  
Best Local Similarity 88.9%; Pred. No. 0.27;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
||| ||| |||  
Db 3 TLGIAPIC 11

RESULT 17  
US-09-759-960-33  
; Sequence 33, Application US/09759960  
; Patent No. US20010006639A1  
; GENERAL INFORMATION:  
; APPLICANT: Urban, Robert G.  
; APPLICANT: Chicz, Roman M.  
; APPLICANT: Collins, Edward J.  
; APPLICANT: Hedley, Mary Lynn  
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
; NUMBER OF SEQUENCES: 33  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSEE: Fish & Richardson, P.C.  
; STREET: 225 Franklin Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: US  
; ZIP: 02110-2804  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: Windows95  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/759,960  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 09/169,425  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fraser, Janis K.  
; REGISTRATION NUMBER: 34,819  
; REFERENCE/DOCKET NUMBER: 08191/004002  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-542-5070  
; TELEFAX: 617-543-8906  
; TELEX: 200154  
; INFORMATION FOR SEQ ID NO: 33:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 11 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-09-759-960-33

Query Match 91.5%; Score 43; DB 3; Length 11;  
Best Local Similarity 88.9%; Pred. No. 0.27;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIVAPIC 9  
|||  
Db 3 TLGIVCPIC 11

## RESULT 18

US-10-603-062-31  
; Sequence 31, Application US/10603062  
; Publication No. US20040229809A1  
; GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
Chicz, Roman M.  
Collins, Edward J.  
Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
PROTEIN  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/603,062  
FILING DATE: 24-Jun-2003  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/169,425C  
FILING DATE: 09-OCT-1998  
APPLICATION NUMBER: 60/061,657  
FILING DATE: 09-OCT-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Frazer, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 31:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 11 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FEATURE:  
NAME/KEY: Other  
LOCATION: 1...1  
OTHER INFORMATION: where Xaa at position 1 is Met, Ala, Ser,  
Arg, Lys, Gly, Gln, Asp, or Glu  
SEQUENCE DESCRIPTION: SEQ ID NO: 31:  
US-10-603-062-31

Query Match 91.5%; Score 43; DB 5; Length 11;  
Best Local Similarity 88.9%; Pred. No. 0.27;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIVAPIC 9  
|||  
Db 3 TLGIVCPIC 11

## RESULT 19

US-10-603-062-33  
; Sequence 33, Application US/10603062  
; Publication No. US20040229809A1  
; GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
Chicz, Roman M.  
Collins, Edward J.  
Hedley, Mary Lynn

TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
PROTEIN

NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804

COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/603,062  
FILING DATE: 24-Jun-2003

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/169,425C  
FILING DATE: 09-OCT-1998

APPLICATION NUMBER: 60/061,657  
FILING DATE: 09-OCT-1997

ATTORNEY/AGENT INFORMATION:  
NAME: Frazer, Janis K.  
REGISTRATION NUMBER: 34,819

REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154

INFORMATION FOR SEQ ID NO: 33:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 11 amino acids  
TYPE: amino acid  
TOPOLOGY: linear

MOLECULE TYPE: peptide  
SEQUENCE DESCRIPTION: SEQ ID NO: 33:  
US-10-603-062-33

Query Match 91.5%; Score 43; DB 5; Length 11;  
Best Local Similarity 88.9%; Pred. No. 0.27;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIVAPIC 9  
|||  
Db 3 TLGIVCPIC 11

## RESULT 20

US-09-759-960-16  
; Sequence 16, Application US/09759960  
; Patent No. US2001000639A1  
; GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
Chicz, Roman M.  
Collins, Edward J.  
Hedley, Mary Lynn

APPLICANT: Collins, Roman M.  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
PROTEIN

NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street

US-09-759-960-16

CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/759,960  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/169,425  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Fraser, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 16:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 12 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-09-759-960-16

Query Match 91.5%; Score 43; DB 3; Length 12;  
Best Local Similarity 88.9%; Pred. No. 0.3;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIIVAPIC 9  
DB 4 TLGIIVCPIC 12

RESULT 21  
US-10-603-062-16  
Sequence 16, Application US/10603062  
Publication No. US20040229809A1  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
Chicz, Roman M.  
Collins, Edward J.  
Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
PROTEIN  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/603,062  
FILING DATE: 24-Jun-2003  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/169,425C  
FILING DATE: 09-OCT-1998  
APPLICATION NUMBER: 60/061,657  
FILING DATE: 09-OCT-1997  
ATTORNEY/AGENT INFORMATION:

NAME: Fraser, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 16:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 12 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
SEQUENCE DESCRIPTION: SEQ ID NO: 16:  
US-10-603-062-16

Query Match 91.5%; Score 43; DB 5; Length 12;  
Best Local Similarity 88.9%; Pred. No. 0.3;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIIVAPIC 9  
DB 4 TLGIIVCPIC 12

RESULT 22  
US-09-759-960-3  
Sequence 3, Application US/09759960  
Patent No. US20010006639A1  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
Chicz, Roman M.  
Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
PROTEIN  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/759,960  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/169,425  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Fraser, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 13 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-09-759-960-3

Query Match 91.5%; Score 43; DB 3; Length 13;  
Best Local Similarity 88.9%; Pred. No. 0.32;



Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 5 TLGIICPIC 13

## RESULT 23

US-09-759-960-4

Sequence 4, Application US/09759960  
Patent No. US20010006639A1  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Chicz, Roman M.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/759,960  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/169,425  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Fraser, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 13 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-09-759-960-4

Query Match 91.5%; Score 43; DB 3; Length 13;  
Best Local Similarity 88.9%; Pred. No. 0.32;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 5 TLGIICPIC 13

## RESULT 24

US-09-759-960-19

Sequence 19, Application US/09759960  
Patent No. US20010006639A1  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Chicz, Roman M.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
TITLE OF INVENTION: PROTEIN

NUMBER OF SEQUENCES: 33

CORRESPONDENCE ADDRESS:

ADDRESSEE: Fish &amp; Richardson, P.C.

STREET: 225 Franklin Street

CITY: Boston

STATE: MA

COUNTRY: US

ZIP: 02110-2804

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: Windows95

SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/759,960

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/169,425

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Fraser, Janis K.

REGISTRATION NUMBER: 34,819

REFERENCE/DOCKET NUMBER: 08191/004002

TELECOMMUNICATION INFORMATION:

TELEPHONE: 617-542-5070

TELEFAX: 617-543-8906

TELEX: 200154

INFORMATION FOR SEQ ID NO: 19:

SEQUENCE CHARACTERISTICS:

LENGTH: 13 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: peptide

FEATURE:

NAME/KEY: Other

LOCATION: 1...1

OTHER INFORMATION: where Xaa at position 1 is Met, Ala, Ser,

OTHER INFORMATION: Arg, Lys, Gly, Gln, Asp, or Glu

US-09-759-960-19

Query Match 91.5%; Score 43; DB 3; Length 13;  
Best Local Similarity 88.9%; Pred. No. 0.32;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 5 TLGIICPIC 13

## RESULT 25

US-09-909-460-110

Sequence 110, Application US/09909460  
Publication No. US20020182256A1  
GENERAL INFORMATION:  
APPLICANT: Lumsford, Lynn B.  
APPLICANT: Putnam, David  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY OF NUCLEIC  
ACID  
FILE REFERENCE: 08191/014001  
CURRENT APPLICATION NUMBER: US/09/909,460  
CURRENT FILING DATE: 2001-07-18  
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/321,346  
PRIOR FILING DATE: EARLIER FILING DATE: 1999-05-27  
NUMBER OF SEQ ID NOS: 114  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 110  
LENGTH: 13  
TYPE: PRT  
ORGANISM: Human papilloma virus  
US-09-909-460-110

Query Match 91.5%; Score 43; DB 3; Length 13;

Best Local Similarity 88.9%; Pred. No. 0.32;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 TLGIVAPIC 9  
Db 5 TLGIVCPIC 13

RESULT 26  
US-09-872-836-110  
; Sequence 110, Application US/09872836  
; Publication No. US20040142475A1  
; GENERAL INFORMATION:  
; APPLICANT: Barman, Shikha P.  
; APPLICANT: McKeever, Una  
; APPLICANT: Hedley, Mary Lynne  
; TITLE OF INVENTION: DELIVERY SYSTEMS FOR BIOACTIVE AGENTS  
; FILE REFERENCE: 08191-018001  
; CURRENT APPLICATION NUMBER: US/09/872,836  
; CURRENT FILING DATE: 2001-06-01  
; PRIOR APPLICATION NUMBER: US 60/208,830  
; PRIOR FILING DATE: 2000-06-02  
; NUMBER OF SEQ. ID NOS: 120  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 110  
; LENGTH: 13  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-872-836-110

Query Match 91.5%; Score 43; DB 3; Length 13;  
Best Local Similarity 88.9%; Pred. No. 0.32;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIVAPIC 9  
Db 5 TLGIVCPIC 13

RESULT 27  
US-10-603-062-3  
; Sequence 3, Application US/10603062  
; Publication No. US20040229809A1  
; GENERAL INFORMATION:  
; APPLICANT: Urban, Robert G.  
; Chiciz, Roman M.  
; Collins, Edward J.  
; Hedley, Mary Lynn  
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
; PROTEIN  
; NUMBER OF SEQUENCES: 33  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fish & Richardson, P.C.  
; STREET: 225 Franklin Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: US  
; ZIP: 02110-2804  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: Windows95  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/10/603,062  
; FILING DATE: 24-Jun-2003  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/09/169,425C  
; FILING DATE: 09-OCT-1998  
; APPLICATION NUMBER: 60/061,657  
; FILING DATE: 09-OCT-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Frazer, Janis K.

REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-542-5070  
; TELEFAX: 617-543-8906  
; TELEX: 200154  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 13 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:

Query Match 91.5%; Score 43; DB 5; Length 13;  
Best Local Similarity 88.9%; Pred. No. 0.32;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIVAPIC 9  
Db 5 TLGIVCPIC 13

RESULT 28  
US-10-603-062-4  
; Sequence 4, Application US/10603062  
; Publication No. US20040229809A1  
; GENERAL INFORMATION:  
; APPLICANT: Urban, Robert G.  
; Chiciz, Roman M.  
; Collins, Edward J.  
; Hedley, Mary Lynn  
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
; PROTEIN

NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/603,062  
FILING DATE: 24-Jun-2003  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/169,425C  
FILING DATE: 09-OCT-1998  
APPLICATION NUMBER: 60/061,657  
FILING DATE: 09-OCT-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Frazer, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 13 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
SEQUENCE DESCRIPTION: SEQ ID NO: 4:

US-10-603-062-4

Query Match 91.5%; Score 43; DB 5; Length 13;  
Best Local Similarity 88.9%; Pred. No. 0.32;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 5 TLGIAPIC 13

## RESULT 29

US-10-603-062-19  
; Sequence 19, Application US/10603062  
; Publication No. US20040229809A1  
; GENERAL INFORMATION:

APPLICANT: Urban, Robert G.

Chicz, Roman M.

Collins, Edward J.

Hedley, Mary Lynn

TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7

PROTEIN

NUMBER OF SEQUENCES: 33

CORRESPONDENCE ADDRESS:

ADDRESSEE: Fish & Richardson, P.C.

STREET: 225 Franklin Street

CITY: Boston

STATE: MA

COUNTRY: US

ZIP: 02110-2804

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: Windows95

SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/603,062

FILING DATE: 24-Jun-2003

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/169,425C

FILING DATE: 09-OCT-1998

APPLICATION NUMBER: 60/061,657

FILING DATE: 09-OCT-1997

ATTORNEY/AGENT INFORMATION:

NAME: Fraser, Janis K.

REGISTRATION NUMBER: 34, 819

REFERENCE/DOCKET NUMBER: 08191/004002

TELECOMMUNICATION INFORMATION:

TELEPHONE: 617-542-5070

TELEFAX: 617-543-8906

TELEX: 200154

INFORMATION FOR SEQ ID NO: 19:

SEQUENCE CHARACTERISTICS:

LENGTH: 13 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: peptide

FEATURE:

NAME/KEY: Other

LOCATION: 1..1

OTHER INFORMATION: where Xaa at position 1 is Met, Ala, Ser,

Arg, Lys, Gly, Gln, Asp, or Glu

SEQUENCE DESCRIPTION: SEQ ID NO: 19:

US-10-603-062-19

Query Match 91.5%; Score 43; DB 5; Length 13;  
Best Local Similarity 88.9%; Pred. No. 0.32;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 5 TLGIAPIC 13

## RESULT 30

US-09-759-960-32  
; Sequence 32, Application US/09759960  
; Patent No. US20010006639A1  
; GENERAL INFORMATION:

APPLICANT: Urban, Robert G.

Chicz, Roman M.

Collins, Edward J.

Hedley, Mary Lynn

TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7

PROTEIN

NUMBER OF SEQUENCES: 33

CORRESPONDENCE ADDRESS:

ADDRESSEE: Fish & Richardson, P.C.

STREET: 225 Franklin Street

CITY: Boston

STATE: MA

COUNTRY: US

ZIP: 02110-2804

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: Windows95

SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/759,960

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/169,425

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Fraser, Janis K.

REGISTRATION NUMBER: 34, 819

REFERENCE/DOCKET NUMBER: 08191/004002

TELECOMMUNICATION INFORMATION:

TELEPHONE: 617-542-5070

TELEFAX: 617-543-8906

TELEX: 200154

INFORMATION FOR SEQ ID NO: 32:

SEQUENCE CHARACTERISTICS:

LENGTH: 14 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: peptide

US-09-759-960-32

Query Match 91.5%; Score 43; DB 3; Length 14;  
Best Local Similarity 88.9%; Pred. No. 0.34;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 3 TLGIAPIC 11

## RESULT 31

US-10-603-062-32  
; Sequence 32, Application US/10603062  
; Publication No. US20040229809A1  
; GENERAL INFORMATION:

APPLICANT: Urban, Robert G.

Chicz, Roman M.

Collins, Edward J.

Hedley, Mary Lynn

TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7

PROTEIN

NUMBER OF SEQUENCES: 33

CORRESPONDENCE ADDRESS:

ADDRESSEE: Fish & Richardson, P.C.

STREET: 225 Franklin Street

CITY: Boston

STATE: MA

COUNTRY: US

ZIP: 02110-2804

```
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/603,062
FILING DATE: 24-Jun-2003
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/169,425C
FILING DATE: 09-OCT-1998
APPLICATION NUMBER: 60/061,657
FILING DATE: 09-OCT-1997
ATTORNEY/AGENT INFORMATION:
NAME: Frazer, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 32:
SEQUENCE CHARACTERISTICS:
LENGTH: 14 amino acids
TYPE: amino acid
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 32:
US-10-603-062-32
```

```
Query Match      91.5%; Score 43; DB 5; Length 14;
Best Local Similarity 88.9%; Pred. No. 0.34;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 TLGIAPIC 9
Db      3 TLGIAPIC 11
```

```
RESULT 32
US-10-648-547-71
; Sequence 71, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mittleman, Abraham
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 71
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-71
```

```
Query Match      91.5%; Score 43; DB 4; Length 15;
Best Local Similarity 88.9%; Pred. No. 0.37;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 TLGIAPIC 9
Db      3 TLGIAPIC 11
```

```
RESULT 33
US-10-648-547-84
```

```
; Sequence 84, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mittleman, Abraham
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 84
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-84
```

```
Query Match      91.5%; Score 43; DB 4; Length 15;
Best Local Similarity 88.9%; Pred. No. 0.37;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 TLGIAPIC 9
Db      7 TLGIAPIC 15
```

```
RESULT 34
US-10-476-570-52
; Sequence 52, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: FOUVELLE-MORATILLE, Sandra
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 52
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E7 84-98
US-10-476-570-52
```

```
Query Match      91.5%; Score 43; DB 4; Length 15;
Best Local Similarity 88.9%; Pred. No. 0.37;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 TLGIAPIC 9
Db      3 TLGIAPIC 11
```

```
RESULT 35
US-10-306-541-71
; Sequence 71, Application US/10306541
; Publication No. US20040171081A1
```

```
; GENERAL INFORMATION:
; APPLICANT: Mittelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 71
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-306-541-71

Query Match      91.5%; Score 43; DB 4; Length 15;
Best Local Similarity 88.9%; Pred. No. 0.37;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIAPIC 9
        |||||
        3 TLGIAPIC 11

Db

RESULT 36
US-10-306-541-84
; Sequence 84, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
; APPLICANT: Mittelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 84
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-306-541-84

Query Match      91.5%; Score 43; DB 4; Length 15;
Best Local Similarity 88.9%; Pred. No. 0.37;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIAPIC 9
        |||||
        7 TLGIAPIC 15

Db

RESULT 37
US-09-759-960-25
; Sequence 25, Application US/09759960
; Patent No. US2001000639A1
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; TITLE OF INVENTION: PROTEIN
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
```

```
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/759,960
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/169,425
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE//DOCKET NUMBER: 08191/004002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-543-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-759-960-25

Query Match      91.5%; Score 43; DB 3; Length 16;
Best Local Similarity 88.9%; Pred. No. 0.39;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIAPIC 9
        |||||
        5 TLGIAPIC 13

Db

RESULT 38
US-09-909-460-109
; Sequence 109, Application US/09909460
; Publication No. US20020182258A1
; GENERAL INFORMATION:
; APPLICANT: Lumsford, Lynn B.
; APPLICANT: Putnam, David
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY OF NUCLEIC
; TITLE OF INVENTION: ACID
; FILE REFERENCE: 08191/014001
; CURRENT APPLICATION NUMBER: US/09/909,460
; CURRENT FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/321,346
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-05-27
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 109
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-09-909-460-109

Query Match      91.5%; Score 43; DB 3; Length 16;
Best Local Similarity 88.9%; Pred. No. 0.39;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIAPIC 9
        |||||
        5 TLGIAPIC 13

Db

RESULT 39
US-09-872-836-109
; Sequence 109, Application US/09872836
```

```
/ Publication No. US20040142475A1
/ GENERAL INFORMATION:
/ APPLICANT: Barman, Shikha P.
/ APPLICANT: McKeever, Una
/ APPLICANT: Hedley, Mary Lynne
/ TITLE OF INVENTION: DELIVERY SYSTEMS FOR BIOACTIVE AGENTS
/ FILE REFERENCE: 08191-018001
/ CURRENT FILING DATE: US/09/872,836
/ PRIOR FILING DATE: 2001-06-01
/ PRIOR APPLICATION NUMBER: US 60/208,830
/ PRIOR FILING DATE: 2000-06-02
/ NUMBER OF SEQ ID NOS: 120
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 109
/ LENGTH: 16
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-872-836-109

Query Match      91.5%; Score 43; DB 3; Length 16;
Best Local Similarity 88.9%; Pred. No. 0.39;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIIVAPIC 9
DB      5 TLGIIVCPIC 13

RESULT 40
US-10-603-062-25
/ Sequence 25, Application US/10603062
/ Publication No. US20040229809A1
/ GENERAL INFORMATION:
/ APPLICANT: Urban, Robert G.
/ APPLICANT: Chicz, Roman M.
/ APPLICANT: Collins, Edward J.
/ APPLICANT: Hedley, Mary Lynn
/ TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
/ PROTEIN
/ NUMBER OF SEQUENCES: 33
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Fish & Richardson, P.C.
/ STREET: 225 Franklin Street
/ CITY: Boston
/ STATE: MA
/ COUNTRY: US
/ ZIP: 02110-2804
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette
/ COMPUTER: IBM Compatible
/ OPERATING SYSTEM: Windows95
/ SOFTWARE: FastSeq for Windows Version 2.0
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/10/603,062
/ FILING DATE: 24-Jun-2003
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US/09/169,425C
/ FILING DATE: 09-OCT-1998
/ APPLICATION NUMBER: 60/061,657
/ FILING DATE: 09-OCT-1997
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Frazer, Janis K.
/ REGISTRATION NUMBER: 34,819
/ REFERENCE/DOCKET NUMBER: 08191/004002
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 617-542-5070
/ TELEFAX: 617-543-8906
/ TELEX: 200154
/ INFORMATION FOR SEQ ID NO: 25:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 16 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
```

```
/ MOLECULE TYPE: peptide
/ SEQUENCE DESCRIPTION: SEQ ID NO: 25:
US-10-603-062-25

Query Match      91.5%; Score 43; DB 5; Length 16;
Best Local Similarity 88.9%; Pred. No. 0.39;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIIVAPIC 9
DB      5 TLGIIVCPIC 13

RESULT 41
US-10-758-970-109
/ Sequence 109, Application US/10758970
/ Publication No. US20050037086A1
/ GENERAL INFORMATION:
/ APPLICANT: Hedley, Mary Lynne
/ APPLICANT: Hsu, Yung-Yueh
/ APPLICANT: Tyo, Michael
/ TITLE OF INVENTION: CONTINUOUS-FLOW METHOD FOR PREPARING MICROPARTICLES
/ FILE REFERENCE: 08191-012001
/ CURRENT APPLICATION NUMBER: US/10/758,970
/ PRIOR FILING DATE: 2004-01-16
/ PRIOR APPLICATION NUMBER: US/09/715,708A
/ PRIOR FILING DATE: 2000-11-17
/ PRIOR APPLICATION NUMBER: US 60/166,516
/ PRIOR FILING DATE: 1999-11-19
/ NUMBER OF SEQ ID NOS: 109
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 109
/ LENGTH: 16
/ TYPE: PRT
/ ORGANISM: Human papilloma virus
US-10-758-970-109

Query Match      91.5%; Score 43; DB 5; Length 16;
Best Local Similarity 88.9%; Pred. No. 0.39;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIIVAPIC 9
DB      5 TLGIIVCPIC 13

RESULT 42
US-10-751-845-69
/ Sequence 69, Application US/10751845
/ Publication No. US20050100928A1
/ GENERAL INFORMATION:
/ APPLICANT: Hedley, Mary Lynne
/ APPLICANT: Urban, Robert G.
/ APPLICANT: Chicz, Roman M.
/ TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
/ FILE REFERENCE: 08191-013001
/ CURRENT APPLICATION NUMBER: US/10/751,845
/ CURRENT FILING DATE: 2004-01-05
/ PRIOR APPLICATION NUMBER: US/09/664,225
/ PRIOR FILING DATE: 2000-08-18
/ PRIOR APPLICATION NUMBER: US 60/169,846
/ PRIOR FILING DATE: 1999-12-09
/ PRIOR APPLICATION NUMBER: US 60/154,665
/ PRIOR FILING DATE: 1999-09-16
/ NUMBER OF SEQ ID NOS: 163
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 69
/ LENGTH: 17
/ TYPE: PRT
/ ORGANISM: Human Papilloma virus
US-10-751-845-69

Query Match      91.5%; Score 43; DB 5; Length 17;
```

Best Local Similarity 88.9%; Pred. No. 0.42;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 1 TLGIAPIC 9  
Db 5 TLGIAPIC 13

RESULT 43  
US-10-476-570-58  
Sequence 58, Application US/10476570  
Publication No. US20040170644A1

GENERAL INFORMATION:  
APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE  
APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE  
APPLICANT: MAILLIERE, Bernard  
APPLICANT: BOURGAULT-VILLADA, Isabelle  
APPLICANT: GUILLET, Jean-Gerard  
TITLE OF INVENTION: Mixture of peptides derived from B6 and/or E7  
TITLE OF INVENTION: papillomavirus proteins and uses thereof  
FILE REFERENCE: 45636-5071-US  
CURRENT APPLICATION NUMBER: US/10/476,570  
CURRENT FILING DATE: 2003-11-04  
PRIOR APPLICATION NUMBER: PCT/FR02/01533  
PRIOR FILING DATE: 2002-05-03  
PRIOR APPLICATION NUMBER: FR 01 05980  
PRIOR FILING DATE: 2001-05-04  
NUMBER OF SEQ ID NOS: 63  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 58  
LENGTH: 19  
TYPE: PRT  
ORGANISM: artificial sequence  
OTHER INFORMATION: Description of the artificial sequence: peptide E7 79-97  
US-10-476-570-58

Query Match 91.5%; Score 43; DB 4; Length 19;  
Best Local Similarity 88.9%; Pred. No. 0.46;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 1 TLGIAPIC 9  
Db 8 TLGIAPIC 16

RESULT 44  
US-10-858-384-18

Sequence 18, Application US/10858384  
Publication No. US20050033025A1  
GENERAL INFORMATION:  
APPLICANT: CHOPPIN, JEANNINE  
APPLICANT: BOURGAULT-VILLADA, ISABELLE  
APPLICANT: GUILLET, JEAN-GERARD  
APPLICANT: CONNAN, FRANCESCA  
APPLICANT: FERRIES, ESTELLE  
TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE B6 PROTEIN  
TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE  
FILE REFERENCE: 0508-1037-1  
CURRENT APPLICATION NUMBER: US/10/858,384  
CURRENT FILING DATE: 2004-06-02  
PRIOR APPLICATION NUMBER: FR 9907012  
PRIOR FILING DATE: 1999-06-03  
NUMBER OF SEQ ID NOS: 24  
SOFTWARE: PatentIn Ver. 3.2  
SEQ ID NO 18  
LENGTH: 19  
TYPE: PRT  
ORGANISM: Artificial Sequence  
OTHER INFORMATION: Description of the Artificial Sequence: Peptide fragment

OTHER INFORMATION: for E7 of HPV  
US-10-858-384-18

Query Match 91.5%; Score 43; DB 5; Length 19;  
Best Local Similarity 88.9%; Pred. No. 0.46;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 8 TLGIAPIC 16

RESULT 45  
US-10-484-063-19

Sequence 19, Application US/10484063  
Publication No. US20050048467A1  
GENERAL INFORMATION:  
APPLICANT: SASTRY, K. JAGANNADHA  
APPLICANT: TORTOLERO-LUNA, GUILHERMO  
TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED  
TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN  
FILE REFERENCE: UTSC:560US  
CURRENT APPLICATION NUMBER: US/10/484,063  
CURRENT FILING DATE: 2004-01-16  
PRIOR APPLICATION NUMBER: PCT/US02/23198  
PRIOR FILING DATE: 2002-07-19  
PRIOR APPLICATION NUMBER: 60/306,809  
PRIOR FILING DATE: 2001-07-20  
NUMBER OF SEQ ID NOS: 27  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 19  
LENGTH: 20  
TYPE: PRT  
ORGANISM: Human papillomavirus  
US-10-484-063-19

Query Match 91.5%; Score 43; DB 5; Length 20;  
Best Local Similarity 88.9%; Pred. No. 0.46;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 1 TLGIAPIC 9  
Db 12 TLGIAPIC 20

RESULT 46  
US-10-432-465-51

Sequence 51, Application US/10432465  
Publication No. US20040091479A1  
GENERAL INFORMATION:  
APPLICANT: Nieland, John  
APPLICANT: Kaufmann, Andreas  
APPLICANT: Kacher, Angela  
APPLICANT: Schinz, Manuela  
TITLE OF INVENTION: T-Cell Epitopes of the Papillomavirus L1  
TITLE OF INVENTION: Protein and E7 Protein and Their Use in Diagnosis and  
FILE REFERENCE: 50125/077001  
CURRENT APPLICATION NUMBER: US/10/432,465  
CURRENT FILING DATE: 2003-12-10  
PRIOR APPLICATION NUMBER: PCT/EP01/14037  
PRIOR FILING DATE: 2001-11-30  
PRIOR APPLICATION NUMBER: DE 10059631.2  
PRIOR FILING DATE: 2000-12-01  
NUMBER OF SEQ ID NOS: 116  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 51  
LENGTH: 21  
TYPE: PRT  
ORGANISM: Human papillomavirus  
US-10-432-465-51

Query Match 91.5%; Score 43; DB 4; Length 21;  
Best Local Similarity 88.9%; Pred. No. 0.51;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIIVAPIC 9  
Db 9 TLGIIVCPIC 17

## RESULT 47

US-10-476-570-18  
; Sequence 18, Application US/10476570  
; Publication No. US2004017064A1  
; GENERAL INFORMATION:  
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE  
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE  
; APPLICANT: MAILLIERE, Bernard  
; APPLICANT: BOURGAULT-VILLADA, Isabelle  
; APPLICANT: GUILLET, Jean-Gerard  
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7  
; TITLE OF INVENTION: Papillomavirus proteins and uses thereof  
; FILE REFERENCE: 45636-5071-US  
; CURRENT APPLICATION NUMBER: US/10/476,570  
; CURRENT FILING DATE: 2003-11-04  
; PRIOR APPLICATION NUMBER: PCT/FR02/01533  
; PRIOR FILING DATE: 2002-05-03  
; PRIOR APPLICATION NUMBER: FR 01 05980  
; PRIOR FILING DATE: 2001-05-04  
; NUMBER OF SEQ ID NOS: 63  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 18  
; LENGTH: 21  
; TYPE: PRT  
; ORGANISM: artificial sequence  
; FEATURE:  
; OTHER INFORMATION: Description of the artificial sequence: peptide E7 78-98  
US-10-476-570-18

Query Match 91.5%; Score 43; DB 4; Length 21;  
Best Local Similarity 88.9%; Pred. No. 0.51;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIIVAPIC 9  
Db 9 TLGIIVCPIC 17

RESULT 48  
US-10-890-526-76  
; Sequence 76, Application US/10890526  
; Publication No. US20040258708A1  
; GENERAL INFORMATION:  
; APPLICANT: Jochmus, Ingrid

; APPLICANT: Nielsen, John  
; TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the  
; TITLE OF INVENTION: Papilloma Virus L1-Protein and Use Thereof in Diagnosis and  
; FILE REFERENCE: 50125/036001  
; CURRENT APPLICATION NUMBER: US/10/890,526  
; CURRENT FILING DATE: 2004-07-13  
; PRIOR APPLICATION NUMBER: US/09/980,177  
; PRIOR FILING DATE: 2002-05-02  
; PRIOR APPLICATION NUMBER: PCT/EP00/05006  
; PRIOR FILING DATE: 2000-05-31  
; PRIOR APPLICATION NUMBER: DE 19925199.1  
; PRIOR FILING DATE: 1999-06-01  
; NUMBER OF SEQ ID NOS: 77  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 76  
; LENGTH: 21  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16

US-10-890-526-76

Query Match 91.5%; Score 43; DB 5; Length 21;  
Best Local Similarity 88.9%; Pred. No. 0.51;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIIVAPIC 9  
Db 9 TLGIIVCPIC 17

## RESULT 49

US-09-759-960-6  
; Sequence 6, Application US/09759960  
; Patent No. US2001006639A1  
; GENERAL INFORMATION:  
; APPLICANT: Urban, Robert G.  
; APPLICANT: Chicz, Roman M.  
; APPLICANT: Collins, Edward J.  
; APPLICANT: Hedley, Mary Lynn  
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
; TITLE OF INVENTION: PROTEIN  
; NUMBER OF SEQUENCES: 33  
; CORRESPONDENCE ADDRESS:  
; ADDRESSER: Fish & Richardson, P.C.  
; STREET: 225 Franklin Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: US  
; ZIP: 02110-2804  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: Windows95  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/759,960  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 09/169,425  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fraser, Janis K.  
; REGISTRATION NUMBER: 34,819  
; REFERENCE/DOCKET NUMBER: 08191/004002  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-542-5070  
; TELEFAX: 617-543-8906  
; TELEX: 200154  
; INFORMATION FOR SEQ ID NO: 6:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 38 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; FRAGMENT TYPE: internal  
US-09-759-960-6

Query Match 91.5%; Score 43; DB 3; Length 38;  
Best Local Similarity 88.9%; Pred. No. 0.92;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIIVAPIC 9  
Db 30 TLGIIVCPIC 38

RESULT 50  
US-10-603-062-6  
; Sequence 6, Application US/10603062  
; Publication No. US20040229809A1  
; GENERAL INFORMATION:  
; APPLICANT: Urban, Robert G.



Chicz, Roman M.  
Collins, Edward J.  
Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
PROTEIN  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fleh & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/603,062  
FILING DATE: 24-Jun-2003  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/169,425C  
FILING DATE: 09-OCT-1998  
APPLICATION NUMBER: 60/061,657  
FILING DATE: 09-OCT-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Frazer, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 38 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FRAGMENT TYPE: internal  
SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
US-10-603-062-6

Query Match 91.5%; Score 43; DB 5; Length 38;  
Best Local Similarity 88.9%; Pred. No. 0.92;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIWAPIC 9  
|||  
Db 30 TLGIWCPIC 38

Search completed: May 5, 2006, 08:06:24  
Job time : 65 secs

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GenCore version 5.1.7  
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OM protein - protein search, using bw model

Run on: May 5, 2006, 07:56:56 ; Search time 8.4 Seconds  
(without alignments)  
49.591 Million cell updates/sec

Title: US-08-170-344-20  
Perfect score: 47  
Sequence: 1 TLGIVAPIC 9

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database :  
1: Published Applications\_AA\_New:\*  
2: /SIDS5/ptodata/1/pubppaa/US08\_NEW\_PUB.pep1:\*  
3: /SIDS5/ptodata/1/pubppaa/US06\_NEW\_PUB.pep:\*  
4: /SIDS5/ptodata/1/pubppaa/US07\_NEW\_PUB.pep:\*  
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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

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3	43	91.5	98	8	US-10-511-814-11
4	43	91.5	98	9	US-10-530-253-14
5	43	91.5	98	11	US-11-179-478-4
6	43	91.5	248	9	US-10-530-253-1
7	43	91.5	248	9	US-10-530-253-3
8	43	91.5	248	9	US-10-530-253-5
9	43	91.5	248	9	US-10-530-253-7
10	43	91.5	248	9	US-10-530-253-9
11	43	91.5	256	9	US-10-530-253-11
12	43	91.5	256	11	US-11-192-923A-2
13	43	91.5	516	11	US-11-087-099-6982
14	35	74.5	15	9	US-10-530-061-1714
15	34	72.3	15	9	US-10-511-937-2997
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18	33	70.2	297	11	US-11-190-364-25
19	33	70.2	297	11	US-11-190-364-26
20	33	70.2	297	11	US-11-147-780-25
21	33	70.2	297	11	US-11-147-780-26
22	33	70.2	339	9	US-10-509-773-6
23	33	70.2	454	11	US-11-045-004-131
24	33	70.2	471	11	US-11-188-298-5536
25	33	70.2	599	11	US-11-188-298-13779
26	32	68.1	10	9	US-10-530-061-662
27	32	68.1	203	9	US-10-118-590-12
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30	32	68.1	225	11	US-11-096-568A-23842
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33	32	68.1	291	11	US-11-098-686-11027
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35	32	68.1	333	11	US-11-040-218-75
36	32	68.1	347	11	US-11-040-218-77
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77	31	66.0	576	9	US-10-922-166-2
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183	29	61.7	892	11	US-11-082-389-396	Sequence 396, App
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193	28	59.6	137	11	US-11-096-568A-1153	Sequence 1153, Ap
194	28	59.6	138	11	US-11-264-096-568	Sequence 568, App
195	28	59.6	141	11	US-11-079-463-5494	Sequence 5494, Ap
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215	28	59.6	311	9	US-10-455-772-332	Sequence 332, App
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219	28	59.6	333	9	US-10-506-454-1405	Sequence 1405, App
220	28	59.6	335	11	US-11-082-389-408	Sequence 408, App
221	28	59.6	345	11	US-11-079-463-7441	Sequence 7441, Ap
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223	28	59.6	356	11	US-11-096-568A-28194	Sequence 28194, A
224	28	59.6	357	11	US-11-087-099-335	Sequence 335, App
225	28	59.6	365	11	US-11-087-099-9630	Sequence 9630, Ap
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232	28	59.6	430	11	US-11-096-568A-11353	Sequence 11353, A
233	28	59.6	432	9	US-10-063-703-112	Sequence 112, App
234	28	59.6	432	9	US-10-194-487-330	Sequence 330, App
235	28	59.6	432	9	US-10-195-883-330	Sequence 330, App
236	28	59.6	432	9	US-10-195-883-330	Sequence 330, App
237	28	59.6	432	9	US-10-195-883-330	Sequence 330, App
238	28	59.6	432	11	US-11-102-240-112	Sequence 112, App
239	28	59.6	432	11	US-11-103-195-112	Sequence 112, App
240	28	59.6	432	11	US-11-103-195-112	Sequence 112, App

241	28	59.6	435	11	US-11-183-914-6	Sequence 6, Appl1	314	27	57.4	263	11	US-11-188-298-2266	Sequence 2266, Ap
242	28	59.6	436	11	US-11-229-484-17	Sequence 17, Appl	315	27	57.4	265	11	US-11-096-568A-20319	Sequence 20319, A
243	28	59.6	437	11	US-11-096-568A-22400	Sequence 22400, A	316	27	57.4	265	11	US-11-188-298-5578	Sequence 5578, Ap
244	28	59.6	437	11	US-11-096-568A-11352	Sequence 11352, A	317	27	57.4	266	11	US-11-096-568A-6272	Sequence 6272, Ap
245	28	59.6	424	11	US-11-188-298-3241	Sequence 3241, Ap	318	27	57.4	268	11	US-11-087-099-1499	Sequence 1499, Ap
246	28	59.6	497	11	US-11-188-298-15019	Sequence 15019, A	319	27	57.4	268	11	US-11-096-568A-20318	Sequence 20318, A
247	28	59.6	506	11	US-11-096-568A-28192	Sequence 28192, A	320	27	57.4	270	9	US-10-745-586-54	Sequence 54, Appl1
248	28	59.6	510	11	US-11-188-298-17168	Sequence 17168, A	321	27	57.4	279	11	US-11-172-740-1179	Sequence 1179, Ap
249	28	59.6	553	11	US-11-188-298-5727	Sequence 5727, Ap	322	27	57.4	281	11	US-11-087-099-5813	Sequence 5813, Ap
250	28	59.6	553	11	US-11-188-298-12028	Sequence 12028, A	323	27	57.4	286	11	US-11-188-298-10535	Sequence 10535, A
251	28	59.6	664	11	US-11-080-991-40	Sequence 40, Appl	324	27	57.4	288	11	US-11-188-298-13609	Sequence 13609, A
252	28	59.6	708	9	US-10-131-826A-298	Sequence 298, App	325	27	57.4	290	9	US-10-506-454-240	Sequence 240, App
253	28	59.6	708	9	US-10-973-115B-298	Sequence 298, App	326	27	57.4	291	9	US-10-467-657-3890	Sequence 3890, Ap
254	28	59.6	708	9	US-10-137-873A-298	Sequence 298, App	327	27	57.4	292	11	US-11-188-298-1148	Sequence 1148, Ap
255	28	59.6	708	9	US-10-152-370-298	Sequence 298, App	328	27	57.4	292	11	US-11-188-298-2668	Sequence 2668, Ap
256	28	59.6	708	11	US-11-290-153-298	Sequence 298, App	329	27	57.4	293	11	US-11-188-298-3130	Sequence 3130, Ap
257	28	59.6	884	9	US-10-995-561-786	Sequence 786, App	330	27	57.4	293	11	US-11-188-298-16090	Sequence 16090, A
258	28	59.6	895	11	US-11-150-406-2	Sequence 2, Appl	331	27	57.4	300	11	US-11-188-298-6274	Sequence 6274, Ap
259	28	59.6	920	9	US-10-821-234-1129	Sequence 1129, Appl	332	27	57.4	305	11	US-11-188-298-9136	Sequence 9136, Ap
260	28	59.6	1258	11	US-11-033-039-930	Sequence 930, App	333	27	57.4	306	9	US-10-454-437-408	Sequence 408, App
261	28	59.6	1404	9	US-10-995-561-526	Sequence 526, App	334	27	57.4	311	11	US-11-172-740-11781	Sequence 11781, Ap
262	28	59.6	1581	11	US-11-090-439-24	Sequence 24, Appl	335	27	57.4	311	11	US-11-172-740-11783	Sequence 11783, Ap
263	28	59.6	1581	11	US-11-090-439-26	Sequence 26, Appl	336	27	57.4	313	11	US-11-172-740-11780	Sequence 11780, Ap
264	28	59.6	1588	9	US-10-995-561-527	Sequence 527, App	337	27	57.4	313	11	US-11-172-740-11782	Sequence 11782, Ap
265	28	59.6	2602	9	US-10-937-658-5	Sequence 5, Appl1	338	27	57.4	314	11	US-11-188-298-12809	Sequence 12809, A
266	28	59.6	2640	11	US-11-087-099-11966	Sequence 11966, A	339	27	57.4	316	11	US-11-072-512-2961	Sequence 2961, Ap
267	28	59.6	2657	9	US-10-821-234-1262	Sequence 1262, Ap	340	27	57.4	316	11	US-11-188-298-19113	Sequence 19113, A
268	27	57.4	9	9	US-10-530-061-369	Sequence 369, App	341	27	57.4	329	11	US-11-096-568A-16554	Sequence 16554, A
269	27	57.4	9	9	US-10-530-061-909	Sequence 909, App	342	27	57.4	330	11	US-11-096-568A-21945	Sequence 21945, A
270	27	57.4	15	9	US-10-530-061-2110	Sequence 2110, Ap	343	27	57.4	331	8	US-10-511-455-31	Sequence 31, Appl1
271	27	57.4	32	9	US-10-895-064-2806	Sequence 2806, Ap	344	27	57.4	337	11	US-11-087-099-1202	Sequence 1202, Ap
272	27	57.4	32	11	US-11-129-741-2806	Sequence 2806, Ap	345	27	57.4	338	11	US-11-096-568A-16553	Sequence 16553, A
273	27	57.4	46	11	US-11-004-399-3263	Sequence 3263, Ap	346	27	57.4	342	9	US-10-514-534-6	Sequence 6, Appl1
274	27	57.4	84	11	US-11-096-568A-2722	Sequence 2722, Ap	347	27	57.4	342	11	US-11-087-099-1652	Sequence 1652, Ap
275	27	57.4	84	11	US-11-079-463-10281	Sequence 10281, A	348	27	57.4	342	9	US-11-087-099-3224	Sequence 3224, Ap
276	27	57.4	87	9	US-10-506-454-475	Sequence 475, App	349	27	57.4	351	11	US-11-188-298-8050	Sequence 8050, Ap
277	27	57.4	106	11	US-11-144-947-341	Sequence 341, App	350	27	57.4	351	11	US-11-188-298-2129	Sequence 2129, Ap
278	27	57.4	112	11	US-11-087-099-5048	Sequence 5048, Ap	351	27	57.4	352	11	US-11-096-568A-8901	Sequence 8901, Ap
279	27	57.4	113	11	US-11-096-568A-25935	Sequence 25935, A	352	27	57.4	352	11	US-11-087-099-1129	Sequence 1129, Ap
280	27	57.4	123	11	US-11-096-568A-1061	Sequence 1061, Ap	353	27	57.4	353	11	US-11-087-099-157	Sequence 1597, Ap
281	27	57.4	123	11	US-11-096-568A-26748	Sequence 26748, A	354	27	57.4	354	11	US-11-096-568A-8900	Sequence 8900, Ap
282	27	57.4	136	9	US-10-793-626-1062	Sequence 1062, Ap	355	27	57.4	355	11	US-11-096-568A-8902	Sequence 8902, Ap
283	27	57.4	137	9	US-10-506-454-1859	Sequence 1859, Ap	356	27	57.4	356	11	US-11-096-568A-8902	Sequence 8902, Ap
284	27	57.4	142	9	US-10-467-657-1056	Sequence 1056, Ap	357	27	57.4	357	11	US-11-096-568A-8902	Sequence 8902, Ap
285	27	57.4	148	9	US-10-467-657-4330	Sequence 4330, Ap	358	27	57.4	358	11	US-11-096-568A-8902	Sequence 8902, Ap
286	27	57.4	150	11	US-11-096-568A-26747	Sequence 26747, A	359	27	57.4	359	11	US-11-096-568A-8902	Sequence 8902, Ap
287	27	57.4	150	11	US-11-096-568A-1060	Sequence 1060, Ap	360	27	57.4	360	11	US-11-096-568A-8902	Sequence 8902, Ap
288	27	57.4	165	11	US-11-188-298-15023	Sequence 15023, A	361	27	57.4	361	11	US-11-096-568A-8902	Sequence 8902, Ap
289	27	57.4	168	11	US-11-096-568A-11760	Sequence 11760, A	362	27	57.4	362	11	US-11-096-568A-8902	Sequence 8902, Ap
290	27	57.4	170	11	US-11-010-239-16	Sequence 16, Appl	363	27	57.4	363	11	US-11-096-568A-8902	Sequence 8902, Ap
291	27	57.4	171	11	US-11-096-568A-11759	Sequence 11759, A	364	27	57.4	364	11	US-11-096-568A-8902	Sequence 8902, Ap
292	27	57.4	175	9	US-10-873-528-97	Sequence 97, Appl1	365	27	57.4	365	11	US-11-096-568A-8902	Sequence 8902, Ap
293	27	57.4	175	11	US-11-079-463-8883	Sequence 8883, Ap	366	27	57.4	366	11	US-11-096-568A-8902	Sequence 8902, Ap
294	27	57.4	189	9	US-10-821-234-1332	Sequence 1432, Ap	367	27	57.4	367	11	US-11-096-568A-8902	Sequence 8902, Ap
295	27	57.4	189	9	US-10-878-556A-193	Sequence 193, App	368	27	57.4	368	11	US-11-096-568A-8902	Sequence 8902, Ap
296	27	57.4	190	11	US-11-188-298-17686	Sequence 17686, A	369	27	57.4	369	11	US-11-096-568A-8902	Sequence 8902, Ap
297	27	57.4	191	11	US-11-096-568A-17486	Sequence 17486, A	370	27	57.4	370	11	US-11-096-568A-8902	Sequence 8902, Ap
298	27	57.4	192	9	US-10-514-534-9	Sequence 9, Appl1	371	27	57.4	371	11	US-11-096-568A-8902	Sequence 8902, Ap
299	27	57.4	195	11	US-11-087-099-1190	Sequence 1190, Ap	372	27	57.4	372	11	US-11-096-568A-8902	Sequence 8902, Ap
300	27	57.4	199	9	US-10-467-657-4532	Sequence 4532, Ap	373	27	57.4	373	11	US-11-096-568A-8902	Sequence 8902, Ap
301	27	57.4	199	11	US-11-000-463-880	Sequence 880, App	374	27	57.4	374	11	US-11-096-568A-8902	Sequence 8902, Ap
302	27	57.4	199	11	US-11-188-298-20850	Sequence 20850, A	375	27	57.4	375	11	US-11-096-568A-8902	Sequence 8902, Ap
303	27	57.4	205	11	US-11-096-568A-11758	Sequence 11758, A	376	27	57.4	376	11	US-11-096-568A-8902	Sequence 8902, Ap
304	27	57.4	206	11	US-11-096-568A-21947	Sequence 21947, A	377	27	57.4	377	11	US-11-096-568A-8902	Sequence 8902, Ap
305	27	57.4	221	11	US-11-079-463-9767	Sequence 9767, Ap	378	27	57.4	378	11	US-11-096-568A-8902	Sequence 8902, Ap
306	27	57.4	221	11	US-11-096-568A-6274	Sequence 6274, Ap	379	27	57.4	379	11	US-11-096-568A-8902	Sequence 8902, Ap
307	27	57.4	229	9	US-10-506-454-1065	Sequence 1065, Ap	380	27	57.4	380	11	US-11-096-568A-8902	Sequence 8902, Ap
308	27	57.4	247	11	US-11-096-568A-6273	Sequence 6273, Ap	381	27	57.4	381	11	US-11-096-568A-8902	Sequence 8902, Ap
309	27	57.4	252	11	US-11-096-568A-8513	Sequence 8513, Ap	382	27	57.4	382	11	US-11-096-568A-8902	Sequence 8902, Ap
310	27	57.4	254	7	US-09-995-493-136	Sequence 136, App	383	27	57.4	383	11	US-11-096-568A-8902	Sequence 8902, Ap
311	27	57.4	255	9	US-10-514-534-8	Sequence 8, Appl1	384	27	57.4	384	11	US-11-096-568A-8902	Sequence 8902, Ap
312	27	57.4	255	11	US-11-096-568A-8512	Sequence 8512, Ap	385	27	57.4	385	11	US-11-096-568A-8902	Sequence 8902, Ap
313	27	57.4	259	11	US-11-096-568A-8511	Sequence 8511, Ap	386	27	57.4	386	11	US-11-096-568A-8902	Sequence 8902, Ap

387	27	57.4	459	11	US-11-188-298-19083	Sequence 19093, A	460	27	57.4	1043	9	US-10-392-23A-34	Sequence 34, App1
388	27	57.4	462	11	US-11-188-298-2073	Sequence 2073, Ap	461	27	57.4	1092	11	US-11-087-099-6350	Sequence 6350, Ap
389	27	57.4	469	11	US-11-087-099-1004	Sequence 1004, Ap	462	27	57.4	1092	11	US-11-188-298-5187	Sequence 5187, Ap
390	27	57.4	472	11	US-11-087-099-5482	Sequence 5482, Ap	463	27	57.4	1124	11	US-11-090-617-688	Sequence 688, App
391	27	57.4	474	11	US-11-087-099-7002	Sequence 7002, Ap	464	27	57.4	1327	9	US-10-784-004-758	Sequence 758, App
392	27	57.4	474	11	US-11-188-298-17451	Sequence 17451, A	465	27	57.4	1327	9	US-10-784-004-761	Sequence 761, App
393	27	57.4	476	11	US-11-087-099-3599	Sequence 3599, Ap	466	27	57.4	1327	9	US-10-784-004-1102	Sequence 1102, Ap
394	27	57.4	476	11	US-11-087-099-8740	Sequence 8740, Ap	467	27	57.4	2202	8	US-10-488-015-12	Sequence 12, App1
395	27	57.4	476	11	US-11-188-298-8479	Sequence 8479, Ap	468	27	57.4	2287	11	US-11-188-298-8622	Sequence 8622, Ap
396	27	57.4	477	11	US-11-096-568A-9174	Sequence 9174, Ap	469	27	57.4	2420	11	US-11-188-298-1545	Sequence 1545, Ap
397	27	57.4	486	11	US-11-096-568A-26632	Sequence 26632, A	470	27	57.4	2426	11	US-11-188-298-15486	Sequence 15486, A
398	27	57.4	490	11	US-11-188-298-17007	Sequence 17007, A	471	26.5	56.4	217	11	US-11-019-711-136	Sequence 136, App
399	27	57.4	493	11	US-11-096-568A-26631	Sequence 26631, A	472	26.5	56.4	227	11	US-11-151-601-36	Sequence 36, App1
400	27	57.4	493	11	US-11-188-298-22181	Sequence 22181, A	473	26.5	56.4	243	9	US-10-506-45A-161	Sequence 161, App
401	27	57.4	494	11	US-11-096-568A-28386	Sequence 28386, A	474	26.5	56.4	249	11	US-11-151-601-28	Sequence 28, App1
402	27	57.4	494	11	US-11-188-298-12254	Sequence 12254, A	475	26.5	56.4	251	11	US-11-151-601-27	Sequence 27, App1
403	27	57.4	497	11	US-11-087-099-9600	Sequence 9600, Ap	476	26.5	56.4	333	11	US-11-188-298-18592	Sequence 18592, A
404	27	57.4	498	11	US-11-096-568A-6429	Sequence 6429, Ap	477	26	55.3	10	9	US-10-530-061-309	Sequence 309, App
405	27	57.4	502	11	US-11-045-004-2038	Sequence 2038, Ap	478	26	55.3	10	9	US-10-530-061-310	Sequence 310, App
406	27	57.4	505	11	US-11-188-298-16466	Sequence 16466, A	479	26	55.3	15	9	US-10-530-061-658	Sequence 658, App
407	27	57.4	505	11	US-11-188-298-18678	Sequence 18678, A	480	26	55.3	15	9	US-10-530-061-1734	Sequence 1734, Ap
408	27	57.4	506	11	US-11-188-298-12510	Sequence 12510, A	481	26	55.3	24	11	US-11-004-359-2786	Sequence 2786, Ap
409	27	57.4	506	11	US-11-188-298-17293	Sequence 17293, A	482	26	55.3	39	9	US-10-510-959-110	Sequence 110, App
410	27	57.4	509	9	US-10-506-45A-275	Sequence 275, App	483	26	55.3	46	9	US-11-264-096-286	Sequence 286, App
411	27	57.4	512	11	US-11-079-463-10078	Sequence 10078, A	484	26	55.3	56	11	US-11-264-096-286	Sequence 109, App
412	27	57.4	513	11	US-11-096-568A-6428	Sequence 6428, Ap	485	26	55.3	58	9	US-10-467-657-3558	Sequence 3558, Ap
413	27	57.4	515	11	US-11-096-568A-9173	Sequence 9173, Ap	486	26	55.3	58	9	US-10-467-657-6472	Sequence 6472, Ap
414	27	57.4	515	11	US-11-096-568A-9176	Sequence 9176, Ap	487	26	55.3	60	9	US-10-467-657-6412	Sequence 6412, Ap
415	27	57.4	526	11	US-11-096-568A-6427	Sequence 6427, Ap	488	26	55.3	74	11	US-11-264-096-2236	Sequence 2236, Ap
416	27	57.4	526	11	US-11-188-298-6566	Sequence 6566, Ap	489	26	55.3	71	11	US-11-144-947-408	Sequence 1876, Ap
417	27	57.4	526	11	US-11-188-298-8364	Sequence 8364, Ap	490	26	55.3	83	11	US-11-264-096-1876	Sequence 145, App
418	27	57.4	530	11	US-11-291-426-4	Sequence 4, App1	491	26	55.3	84	11	US-11-050-857-145	Sequence 145, App
419	27	57.4	535	11	US-11-291-426-2	Sequence 2, App1	492	26	55.3	84	11	US-11-051-720-1412	Sequence 1412, Ap
420	27	57.4	547	11	US-11-096-568A-28385	Sequence 28385, A	493	26	55.3	86	9	US-11-043-806-334	Sequence 334, App
421	27	57.4	556	11	US-11-188-298-13497	Sequence 13497, A	494	26	55.3	86	9	US-10-467-657-7346	Sequence 7346, Ap
422	27	57.4	560	11	US-11-188-298-15439	Sequence 15439, A	495	26	55.3	90	11	US-11-050-857-146	Sequence 146, App
423	27	57.4	562	11	US-11-079-463-9132	Sequence 9132, Ap	496	26	55.3	90	11	US-11-051-720-1413	Sequence 1413, Ap
424	27	57.4	575	11	US-11-096-568A-1849	Sequence 1849, Ap	497	26	55.3	90	11	US-11-043-806-335	Sequence 335, App
425	27	57.4	575	11	US-11-096-568A-27193	Sequence 27193, A	498	26	55.3	93	11	US-11-050-857-144	Sequence 144, App
426	27	57.4	575	11	US-11-188-298-10084	Sequence 10084, A	499	26	55.3	93	11	US-11-051-720-1411	Sequence 1411, Ap
427	27	57.4	611	11	US-11-096-568A-1848	Sequence 1848, Ap	500	26	55.3	93	11	US-11-043-806-333	Sequence 333, App
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429	27	57.4	619	11	US-11-019-711-34	Sequence 34, App1	502	26	55.3	99	9	US-10-530-253-34	Sequence 34, App1
430	27	57.4	620	8	US-10-505-928-284	Sequence 284, App	503	26	55.3	100	11	US-11-264-096-1332	Sequence 1332, Ap
431	27	57.4	633	11	US-11-188-298-18914	Sequence 18914, A	504	26	55.3	104	9	US-10-530-253-40	Sequence 40, App1
432	27	57.4	637	11	US-11-096-568A-1847	Sequence 1847, Ap	505	26	55.3	105	9	US-10-530-253-27	Sequence 27, App1
433	27	57.4	637	11	US-11-096-568A-27191	Sequence 27191, A	506	26	55.3	106	9	US-10-530-253-32	Sequence 32, App1
434	27	57.4	643	11	US-11-079-463-8343	Sequence 8343, Ap	507	26	55.3	109	11	US-11-079-463-5400	Sequence 5400, Ap
435	27	57.4	674	9	US-10-501-035-308	Sequence 308, App	508	26	55.3	110	11	US-11-050-857-1126	Sequence 1126, Ap
436	27	57.4	680	9	US-10-915-002-190	Sequence 190, App	509	26	55.3	110	11	US-11-051-720-1741	Sequence 1741, Ap
437	27	57.4	681	11	US-11-096-568A-28384	Sequence 28384, A	510	26	55.3	110	11	US-11-043-806-534	Sequence 534, App
438	27	57.4	684	11	US-11-098-686-10193	Sequence 10193, A	511	26	55.3	112	11	US-11-134-241-25	Sequence 25, App1
439	27	57.4	706	8	US-10-505-928-131	Sequence 131, App	512	26	55.3	114	11	US-11-250-759-289	Sequence 289, App
440	27	57.4	708	9	US-10-636-320-2	Sequence 2, App1	513	26	55.3	115	11	US-11-072-512-3840	Sequence 3840, Ap
441	27	57.4	736	11	US-11-087-099-271	Sequence 271, App	514	26	55.3	125	11	US-11-250-759-290	Sequence 290, App
442	27	57.4	737	9	US-10-055-877-156	Sequence 156, App	515	26	55.3	125	11	US-11-098-686-70	Sequence 70, App1
443	27	57.4	737	11	US-11-072-512-2689	Sequence 2689, Ap	516	26	55.3	135	9	US-10-506-45A-630	Sequence 630, App
444	27	57.4	759	11	US-11-188-298-5750	Sequence 5750, App	517	26	55.3	141	9	US-10-218-784-16	Sequence 16, App1
445	27	57.4	759	11	US-11-188-298-6732	Sequence 6732, Ap	518	26	55.3	141	9	US-10-219-061-16	Sequence 16, App1
446	27	57.4	759	11	US-11-188-298-8543	Sequence 8543, Ap	519	26	55.3	141	9	US-10-219-061-16	Sequence 16, App1
447	27	57.4	759	11	US-11-188-298-20980	Sequence 20980, A	520	26	55.3	141	9	US-10-219-061-16	Sequence 16, App1
448	27	57.4	760	8	US-10-505-928-50	Sequence 50, App1	521	26	55.3	141	9	US-10-233-134-16	Sequence 16, App1
449	27	57.4	809	11	US-11-188-298-13996	Sequence 13996, A	522	26	55.3	141	11	US-11-050-857-869	Sequence 969, App
450	27	57.4	810	9	US-10-506-45A-1176	Sequence 1176, A	523	26	55.3	141	11	US-11-050-857-869	Sequence 1708, Ap
451	27	57.4	842	11	US-11-096-568A-34417	Sequence 34417, A	524	26	55.3	141	11	US-11-043-806-486	Sequence 486, App
452	27	57.4	856	11	US-11-054-281-116	Sequence 116, App	525	26	55.3	141	11	US-11-250-759-215	Sequence 215, App
453	27	57.4	868	11	US-11-096-568A-34416	Sequence 34416, A	526	26	55.3	144	11	US-11-264-096-2071	Sequence 2071, Ap
454	27	57.4	888	11	US-11-188-298-522	Sequence 522, App	527	26	55.3	145	11	US-11-096-568A-18721	Sequence 18721, A
455	27	57.4	899	8	US-10-505-928-823	Sequence 823, App	528	26	55.3	148	11	US-11-087-099-3712	Sequence 3712, Ap
456	27	57.4	912	11	US-10-995-561-696	Sequence 696, App	529	26	55.3	148	11	US-11-188-298-16214	Sequence 16214, A
457	27	57.4	932	11	US-11-071-581-1	Sequence 1, App1	530	26	55.3	153	11	US-11-172-740-2342	Sequence 2342, Ap
458	27	57.4	970	11	US-11-096-568A-34415	Sequence 34415, A	531	26	55.3	156	11	US-11-188-298-1694	Sequence 1694, Ap
459	27	57.4	1042	11	US-11-067-811-1	Sequence 1, App1	532	26	55.3	157	11	US-11-096-568A-18720	Sequence 18720, A

533	26	55.3	160	11	US-11-188-298-7713	Sequence 7713, Ap	606	26	55.3	260	11	US-11-172-740-1537	Sequence 1537, Ap
534	26	55.3	162	11	US-11-055-822-788	Sequence 788, App	607	26	55.3	261	11	US-11-188-298-5500	Sequence 5500, Ap
535	26	55.3	163	11	US-11-188-298-8523	Sequence 8523, Ap	608	26	55.3	261	11	US-11-188-298-13909	Sequence 13909, A
536	26	55.3	163	11	US-11-188-298-10878	Sequence 10878, A	609	26	55.3	263	11	US-11-096-568A-17277	Sequence 17277, A
537	26	55.3	163	11	US-11-188-298-12303	Sequence 12303, A	610	26	55.3	263	11	US-11-172-740-1533	Sequence 1533, Ap
538	26	55.3	164	11	US-11-050-857-971	Sequence 971, App	611	26	55.3	264	11	US-11-172-740-1534	Sequence 1534, Ap
539	26	55.3	164	11	US-11-051-720-1710	Sequence 1710, Ap	612	26	55.3	267	9	US-10-627-952-20	Sequence 20, App1
540	26	55.3	164	11	US-11-043-806-488	Sequence 488, App	613	26	55.3	267	11	US-11-087-099-10132	Sequence 10132, A
541	26	55.3	165	11	US-11-050-857-970	Sequence 970, App	614	26	55.3	267	11	US-11-172-740-1536	Sequence 1536, Ap
542	26	55.3	165	11	US-11-051-720-1709	Sequence 1709, Ap	615	26	55.3	267	11	US-11-188-298-4536	Sequence 4536, Ap
543	26	55.3	165	11	US-11-043-806-487	Sequence 487, App	616	26	55.3	267	11	US-11-188-298-12720	Sequence 12720, A
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545	26	55.3	173	9	US-10-793-626-284	Sequence 284, App	618	26	55.3	270	11	US-11-172-740-1538	Sequence 1538, Ap
546	26	55.3	174	11	US-11-188-298-2174	Sequence 2174, App	619	26	55.3	271	11	US-11-079-463-5305	Sequence 5305, Ap
547	26	55.3	175	11	US-11-188-298-4065	Sequence 4065, Ap	620	26	55.3	271	11	US-11-096-568A-11741	Sequence 11741, A
548	26	55.3	182	11	US-11-188-298-17809	Sequence 17809, A	621	26	55.3	273	11	US-11-096-568A-31116	Sequence 31116, A
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551	26	55.3	189	11	US-11-087-099-8246	Sequence 8246, Ap	624	26	55.3	281	11	US-11-087-177-15	Sequence 15, App1
552	26	55.3	194	11	US-11-087-099-4687	Sequence 4687, App	625	26	55.3	284	11	US-11-096-568A-11740	Sequence 11740, A
553	26	55.3	196	11	US-11-188-298-10614	Sequence 10614, A	626	26	55.3	288	11	US-11-096-568A-25131	Sequence 25131, Ap
554	26	55.3	196	11	US-11-188-298-21403	Sequence 21403, A	627	26	55.3	293	11	US-11-096-568A-2429	Sequence 2429, Ap
555	26	55.3	199	11	US-11-096-568A-14298	Sequence 14298, A	628	26	55.3	293	11	US-11-096-568A-31117	Sequence 31117, A
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557	26	55.3	206	11	US-11-096-568A-11495	Sequence 11495, A	630	26	55.3	297	11	US-11-096-568A-2428	Sequence 2428, Ap
558	26	55.3	209	11	US-11-134-241-37	Sequence 37, App1	631	26	55.3	297	11	US-11-096-568A-31116	Sequence 31116, A
559	26	55.3	213	11	US-11-072-512-3861	Sequence 3861, Ap	632	26	55.3	297	11	US-11-079-463-6186	Sequence 9, App11
560	26	55.3	213	11	US-11-045-004-518	Sequence 518, App	633	26	55.3	298	11	US-11-138-949-9	Sequence 9, App11
561	26	55.3	214	11	US-11-172-740-68	Sequence 68, App1	634	26	55.3	300	9	US-10-858-730-16	Sequence 16, App1
562	26	55.3	215	11	US-11-072-512-2196	Sequence 2196, Ap	635	26	55.3	300	11	US-11-152-569-17	Sequence 17, App1
563	26	55.3	218	11	US-11-072-512-3678	Sequence 3678, Ap	636	26	55.3	302	11	US-11-079-463-8378	Sequence 8378, Ap
564	26	55.3	221	11	US-11-096-568A-5552	Sequence 5522, Ap	637	26	55.3	302	11	US-11-079-463-6125	Sequence 6125, Ap
565	26	55.3	222	9	US-10-467-657-5190	Sequence 5190, Ap	638	26	55.3	305	11	US-11-080-091-13	Sequence 13, App1
566	26	55.3	222	11	US-11-050-857-143	Sequence 143, App	639	26	55.3	305	11	US-11-087-177-11	Sequence 11, App1
567	26	55.3	222	11	US-11-051-720-1410	Sequence 1410, Ap	640	26	55.3	305	11	US-11-087-177-13	Sequence 13, App1
568	26	55.3	222	11	US-11-043-806-332	Sequence 332, App	641	26	55.3	307	9	US-10-467-657-1592	Sequence 1592, Ap
569	26	55.3	226	11	US-11-096-568A-2430	Sequence 2430, Ap	642	26	55.3	309	11	US-11-098-686-11356	Sequence 11356, A
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571	26	55.3	229	11	US-11-096-568A-23258	Sequence 23258, A	644	26	55.3	309	11	US-11-087-099-7838	Sequence 7838, Ap
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573	26	55.3	236	11	US-11-096-568A-23308	Sequence 23308, A	646	26	55.3	314	11	US-11-096-568A-6651	Sequence 6651, Ap
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579	26	55.3	245	11	US-11-087-099-1640	Sequence 1640, Ap	652	26	55.3	322	11	US-11-054-281-305	Sequence 305, App
580	26	55.3	245	11	US-11-087-099-2088	Sequence 2088, Ap	653	26	55.3	322	11	US-11-188-298-19775	Sequence 19775, A
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582	26	55.3	245	11	US-11-087-099-4401	Sequence 4401, Ap	655	26	55.3	330	11	US-11-188-298-10444	Sequence 10444, A
583	26	55.3	245	11	US-11-087-099-4934	Sequence 4934, Ap	656	26	55.3	334	11	US-11-098-686-10407	Sequence 10407, A
584	26	55.3	245	11	US-11-087-099-5134	Sequence 5134, Ap	657	26	55.3	336	9	US-10-453-388-420	Sequence 120, App
585	26	55.3	245	11	US-11-087-099-5141	Sequence 5141, Ap	658	26	55.3	336	9	US-10-467-657-3852	Sequence 3852, Ap
586	26	55.3	245	11	US-11-087-099-6186	Sequence 6186, Ap	659	26	55.3	338	11	US-11-188-298-5103	Sequence 5103, Ap
587	26	55.3	245	11	US-11-087-099-6348	Sequence 6348, Ap	660	26	55.3	338	11	US-11-188-298-6310	Sequence 6310, Ap
588	26	55.3	245	11	US-11-087-099-6442	Sequence 6442, Ap	661	26	55.3	338	11	US-11-188-298-7332	Sequence 7332, Ap
589	26	55.3	245	11	US-11-087-099-6551	Sequence 6551, Ap	662	26	55.3	340	11	US-11-098-686-10518	Sequence 10518, A
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591	26	55.3	245	11	US-11-087-099-7927	Sequence 7927, Ap	664	26	55.3	342	11	US-11-096-568A-33536	Sequence 33536, A
592	26	55.3	245	11	US-11-087-099-8322	Sequence 8322, Ap	665	26	55.3	344	11	US-11-096-568A-6850	Sequence 6850, Ap
593	26	55.3	245	11	US-11-087-099-9726	Sequence 9726, Ap	666	26	55.3	345	11	US-11-055-822-1028	Sequence 1028, Ap
594	26	55.3	245	11	US-11-087-099-9780	Sequence 9780, Ap	667	26	55.3	345	11	US-11-174-816-15	Sequence 15, App1
595	26	55.3	245	11	US-11-087-099-9935	Sequence 9935, Ap	668	26	55.3	345	11	US-11-174-816-15	Sequence 70, App1
596	26	55.3	245	11	US-11-087-099-10438	Sequence 10438, A	669	26	55.3	346	11	US-11-087-099-720	Sequence 720, App
597	26	55.3	245	11	US-11-087-099-10795	Sequence 10795, A	670	26	55.3	346	11	US-11-087-099-6518	Sequence 6518, Ap
598	26	55.3	247	11	US-11-096-568A-23357	Sequence 23257, A	671	26	55.3	346	11	US-11-096-568A-14721	Sequence 14721, A
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603	26	55.3	255	11	US-11-096-568A-43394	Sequence 43394, Ap	676	26	55.3	349	11	US-11-096-568A-6849	Sequence 6849, Ap
604	26	55.3	256	11	US-11-096-568A-23243	Sequence 23243, A	677	26	55.3	349	11	US-11-255-990-17	Sequence 17, App1
605	26	55.3	260	11	US-11-055-822-1030	Sequence 1030, Ap	678	26	55.3	349	11	US-11-079-463-6153	Sequence 6153, Ap

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680	26	55.3	350	11	US-11-102-240-8	Sequence 8, Appl1	753	26	55.3	374	11	US-11-087-039-7549	Sequence 7549, Ap
681	26	55.3	350	11	US-11-087-099-955	Sequence 955, App	754	26	55.3	374	11	US-11-087-039-7629	Sequence 7629, Ap
682	26	55.3	350	11	US-11-103-195-8	Sequence 8, Appl1	755	26	55.3	374	11	US-11-087-039-7931	Sequence 7931, Ap
683	26	55.3	350	11	US-11-255-799-2	Sequence 2, Appl1	756	26	55.3	374	11	US-11-087-039-8552	Sequence 8552, Ap
684	26	55.3	354	11	US-11-188-298-19796	Sequence 19796, A	757	26	55.3	374	11	US-11-087-039-8874	Sequence 8874, Ap
685	26	55.3	355	9	US-10-467-657-5056	Sequence 5056, Ap	758	26	55.3	374	11	US-11-087-039-8887	Sequence 8887, Ap
686	26	55.3	355	11	US-11-096-568A-30791	Sequence 30791, A	759	26	55.3	374	11	US-11-087-039-9371	Sequence 9371, Ap
687	26	55.3	356	11	US-11-188-298-5172	Sequence 5172, A	760	26	55.3	374	11	US-11-087-039-9829	Sequence 9829, Ap
688	26	55.3	358	11	US-11-087-099-8108	Sequence 8108, Ap	761	26	55.3	374	11	US-11-087-039-10153	Sequence 10153, A
689	26	55.3	358	11	US-11-087-099-11545	Sequence 11545, A	762	26	55.3	374	11	US-11-087-039-10890	Sequence 10890, A
690	26	55.3	359	9	US-10-055-877-265	Sequence 265, App	763	26	55.3	374	11	US-11-087-039-10934	Sequence 10934, A
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692	26	55.3	359	11	US-11-116-939-15	Sequence 15, Appl1	765	26	55.3	374	11	US-11-087-039-12216	Sequence 12216, A
693	26	55.3	359	11	US-11-087-177-23	Sequence 23, Appl1	766	26	55.3	374	11	US-11-087-039-12416	Sequence 12416, A
694	26	55.3	359	11	US-11-087-177-25	Sequence 25, Appl1	767	26	55.3	375	11	US-11-127-877-67	Sequence 67, Appl1
695	26	55.3	359	11	US-11-087-177-29	Sequence 29, Appl1	768	26	55.3	377	11	US-11-096-568A-17276	Sequence 17276, A
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697	26	55.3	360	11	US-11-072-512-3788	Sequence 3788, Ap	770	26	55.3	378	11	US-11-096-568A-24781	Sequence 24781, A
698	26	55.3	360	11	US-11-087-099-6924	Sequence 6924, Ap	771	26	55.3	381	11	US-11-096-666-11174	Sequence 11174, A
699	26	55.3	360	11	US-11-087-099-9427	Sequence 9427, Ap	772	26	55.3	384	11	US-11-079-463-6038	Sequence 6038, Ap
700	26	55.3	361	11	US-11-087-099-2400	Sequence 2400, Ap	773	26	55.3	386	11	US-11-188-298-14846	Sequence 14846, A
701	26	55.3	361	11	US-11-087-099-3244	Sequence 3244, Ap	774	26	55.3	387	11	US-11-229-769-372	Sequence 372, App
702	26	55.3	361	11	US-11-087-099-8751	Sequence 8751, Ap	775	26	55.3	389	9	US-10-485-310-3	Sequence 3, Appl1
703	26	55.3	361	11	US-11-087-099-12319	Sequence 12319, A	776	26	55.3	394	11	US-11-188-298-10251	Sequence 10251, A
704	26	55.3	362	11	US-11-087-099-3548	Sequence 3548, Ap	777	26	55.3	399	11	US-11-096-568A-14720	Sequence 14720, A
705	26	55.3	362	11	US-11-096-568A-11739	Sequence 11739, A	778	26	55.3	399	11	US-11-096-568A-21899	Sequence 21899, A
706	26	55.3	363	11	US-11-087-099-3968	Sequence 3968, Ap	779	26	55.3	399	11	US-11-096-568A-24837	Sequence 24837, A
707	26	55.3	363	11	US-11-087-099-7293	Sequence 7293, Ap	780	26	55.3	399	11	US-11-096-568A-26228	Sequence 26228, A
708	26	55.3	363	11	US-11-087-099-9077	Sequence 9077, Ap	781	26	55.3	401	11	US-11-096-568A-29943	Sequence 29943, A
709	26	55.3	363	11	US-11-087-099-11097	Sequence 11097, A	782	26	55.3	401	11	US-11-096-568A-32472	Sequence 32472, A
710	26	55.3	363	11	US-11-087-099-11102	Sequence 11102, A	783	26	55.3	402	9	US-10-877-346-84	Sequence 84, Appl1
711	26	55.3	363	11	US-11-087-099-11102	Sequence 11102, A	784	26	55.3	404	11	US-11-069-642-115	Sequence 115, App
712	26	55.3	364	11	US-11-087-177-33	Sequence 31, Appl1	785	26	55.3	405	9	US-10-703-799B-262	Sequence 262, App
713	26	55.3	364	11	US-11-087-177-33	Sequence 33, Appl1	786	26	55.3	406	11	US-11-072-512-3291	Sequence 3291, Ap
714	26	55.3	364	11	US-11-087-099-1446	Sequence 1446, Ap	787	26	55.3	407	11	US-11-079-463-7218	Sequence 7218, Ap
715	26	55.3	364	11	US-11-087-099-3540	Sequence 3540, Ap	788	26	55.3	408	11	US-11-135-855-39	Sequence 39, Appl1
716	26	55.3	364	11	US-11-087-099-5588	Sequence 5588, Ap	789	26	55.3	409	11	US-11-188-298-20269	Sequence 20269, A
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718	26	55.3	365	11	US-11-087-099-11667	Sequence 1867, Ap	791	26	55.3	415	11	US-11-096-568A-13118	Sequence 13118, A
719	26	55.3	365	11	US-11-087-099-10157	Sequence 10157, A	792	26	55.3	417	11	US-11-188-298-11459	Sequence 11459, A
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723	26	55.3	367	11	US-11-096-568A-25130	Sequence 25130, A	796	26	55.3	423	11	US-11-096-568A-13117	Sequence 13117, A
724	26	55.3	368	11	US-11-082-389-320	Sequence 320, App	797	26	55.3	424	11	US-11-045-004-554	Sequence 554, App
725	26	55.3	369	11	US-11-087-099-4654	Sequence 4654, Ap	798	26	55.3	425	11	US-11-061-869-10	Sequence 10, Appl1
726	26	55.3	370	11	US-11-087-099-4748	Sequence 4748, Ap	799	26	55.3	425	11	US-11-197-721-8	Sequence 8, Appl1
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981 26 55.3 1217 11 US-11-072-513-2263 Sequence 2263, Ap
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## ALIGNMENTS

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RESULT 1
US-10-530-061-1715
; Sequence 1715, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1715
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1715

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Best Local Similarity 88.9%; Pred. No. 0.015;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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; Sequence 8, Application US/10511814
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; Publication No. US20060088472A1
; GENERAL INFORMATION:
; APPLICANT: McCance, Dennis
; APPLICANT: Westbrook, III, Thomas F.
; TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
; FILE REFERENCE: 21108.0016U2
; CURRENT APPLICATION NUMBER: US/10/511,814
; CURRENT FILING DATE: 2004-10-19
; PRIOR APPLICATION NUMBER: PCT/US03/12667
; PRIOR FILING DATE: 2003-04-21
; PRIOR APPLICATION NUMBER: 60/374,245
; PRIOR FILING DATE: 2002-04-19
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
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US-10-511-814-8

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Best Local Similarity 88.9%; Pred. No. 0.1;
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RESULT 3
US-10-511-814-11
; Sequence 11, Application US/10511814
; Publication No. US20060088472A1
; GENERAL INFORMATION:
; APPLICANT: McCance, Dennis
; APPLICANT: Westbrook, III, Thomas F.
; TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
; FILE REFERENCE: 21108.0016U2
; CURRENT APPLICATION NUMBER: US/10/511,814
; CURRENT FILING DATE: 2004-10-19
; PRIOR APPLICATION NUMBER: PCT/US03/12667
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US-10-511-814-11

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RESULT 4
US-10-530-253-14
; Sequence 14, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
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APPLICANT: Smith, Larry  
APPLICANT: Jeffrey K. Pullen  
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
FILE REFERENCE: 00630/100M137-US2  
CURRENT APPLICATION NUMBER: US/10/530.253  
PRIOR FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US2003/031726  
PRIOR FILING DATE: 2003-10-02  
PRIOR APPLICATION NUMBER: US 60/415,929  
PRIOR FILING DATE: 2002-10-03  
NUMBER OF SEQ ID NOS: 65  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 14  
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TYPE: PRT  
ORGANISM: Human papillomavirus type 16  
US-10-530-253-14

Query Match 91.5%; Score 43; DB 9; Length 98;  
Best Local Similarity 88.9%; Pred. No. 0.1;  
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RESULT 5  
US-11-179-478-4  
Sequence 4, Application US/11179478  
Publication No. US20050249745A1

GENERAL INFORMATION:

APPLICANT: BURGER, Alexander  
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE  
TITLE OF INVENTION: FORMULATIONS AND METHODS OF USE  
NUMBER OF SEQUENCES: 28  
CORRESPONDENCE ADDRESS:  
STREET: 3000 K Street, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20007-5109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/11/179,478  
FILING DATE: 13-JULY-2005

CLASSIFICATION:

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/10/654,129  
FILING DATE: 04-Sep-2003

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:  
NAME: Sandercok, Colin G.  
REGISTRATION NUMBER: 31,298  
REFERENCE/DOCKET NUMBER: 37067/102  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 672-5300  
TELEFAX: (202) 672-5399

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 98 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLSCULE TYPE: protein  
US-11-179-478-4

Query Match 91.5%; Score 43; DB 11; Length 98;  
Best Local Similarity 88.9%; Pred. No. 0.1;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIVAPIC 9  
Db 86 TLGIVCPIC 94

RESULT 6  
US-10-530-253-1

Sequence 1, Application US/10530253  
Publication No. US20060014926A1

GENERAL INFORMATION:

APPLICANT: Cassetti, Maria C.

APPLICANT: Smith, Larry

APPLICANT: Jeffrey K. Pullen

TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS

FILE REFERENCE: 00630/100M137-US2  
CURRENT APPLICATION NUMBER: US/10/530.253

CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US2003/031726

PRIOR FILING DATE: 2003-10-02  
PRIOR APPLICATION NUMBER: US 60/415,929

PRIOR FILING DATE: 2002-10-03  
NUMBER OF SEQ ID NOS: 65

SOFTWARE: PatentIn version 3.1  
SEQ ID NO 1

LENGTH: 248

TYPE: PRT

ORGANISM: Human papillomavirus type 16  
US-10-530-253-1

Query Match 91.5%; Score 43; DB 9; Length 248;  
Best Local Similarity 88.9%; Pred. No. 0.27;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIVAPIC 9  
Db 236 TLGIVCPIC 244

RESULT 7  
US-10-530-253-3

Sequence 3, Application US/10530253  
Publication No. US20060014926A1

GENERAL INFORMATION:

APPLICANT: Cassetti, Maria C.

APPLICANT: Smith, Larry

APPLICANT: Jeffrey K. Pullen

TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS

FILE REFERENCE: 00630/100M137-US2  
CURRENT APPLICATION NUMBER: US/10/530.253

CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US2003/031726

PRIOR FILING DATE: 2003-10-02  
PRIOR APPLICATION NUMBER: US 60/415,929

PRIOR FILING DATE: 2002-10-03  
NUMBER OF SEQ ID NOS: 65

SOFTWARE: PatentIn version 3.1  
SEQ ID NO 3

LENGTH: 248

TYPE: PRT

ORGANISM: Human papillomavirus type 16  
US-10-530-253-3

Query Match 91.5%; Score 43; DB 9; Length 248;  
Best Local Similarity 88.9%; Pred. No. 0.27;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIVAPIC 9

DB 236 TLGIVPIC 244

```
RESULT 8
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-5
```

Query Match 91.5%; Score 43; DB 9; Length 248;  
Best Local Similarity 88.9%; Pred. No. 0.27;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIVAPIC 9  
DB 236 TLGIVPIC 244

```
RESULT 9
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-7
```

Query Match 91.5%; Score 43; DB 9; Length 248;  
Best Local Similarity 88.9%; Pred. No. 0.27;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIVAPIC 9  
DB 86 TLGIVPIC 94

RESULT 10

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US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-9
```

Query Match 91.5%; Score 43; DB 9; Length 248;  
Best Local Similarity 88.9%; Pred. No. 0.27;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIVAPIC 9  
DB 86 TLGIVPIC 94

```
RESULT 11
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-11
```

Query Match 91.5%; Score 43; DB 9; Length 248;  
Best Local Similarity 88.9%; Pred. No. 0.27;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIVAPIC 9  
DB 86 TLGIVPIC 94

```
RESULT 12
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
; APPLICANT: PANG, XIAOWU
```

```

; TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
; FILE REFERENCE: 116620-003
; CURRENT APPLICATION NUMBER: US/11/192,923A
; PRIOR FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: CN 03115272.4
; PRIOR FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: CN 03115273.2
; PRIOR FILING DATE: 2003-01-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patentin Ver. 3.3
; SEQ ID NO 2
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-11-192-923A-2

Query Match      91.5%; Score 43; DB 11; Length 256;
Best Local Similarity 88.9%; Pred. No. 0.28;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIVAPIC 9
Db      86 TLGIVCPIC 94

RESULT 13
US-11-087-099-6982
; Sequence 6982, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 6982
; LENGTH: 516
; TYPE: PRT
; ORGANISM: Shewanella oneidensis MR-1
US-11-087-099-6982

Query Match      76.6%; Score 36; DB 11; Length 516;
Best Local Similarity 77.8%; Pred. No. 16;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIVAPIC 9
Db      254 TLGIVAGLIC 262

RESULT 14
US-11-072-175-250
; Sequence 250, Application US/11072175
; Publication No. US20060029944A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: IDENTIFICATION OF GENES FOR PREDICTING ACTIVITY OF COMPOUNDS THAT
; INTERACT WITH AND/OR MODULATE PROTEIN TYROSINE KINASES AND/OR
; FILE REFERENCE: D0273A CIP
; CURRENT APPLICATION NUMBER: US/11/072,175
; CURRENT FILING DATE: 2005-03-05
; PRIOR APPLICATION NUMBER: US 60/406,385
; PRIOR FILING DATE: 2002-08-27
; PRIOR APPLICATION NUMBER: US 10/648,593
; PRIOR FILING DATE: 2003-08-26
; NUMBER OF SEQ ID NOS: 571
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 250
; LENGTH: 487
; TYPE: PRT
```

```

; ORGANISM: Homo sapiens
US-11-072-175-250

Query Match      74.5%; Score 35; DB 11; Length 487;
Best Local Similarity 55.6%; Pred. No. 24;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      1 TLGIVAPIC 9
Db      202 TFGIILPLC 210

RESULT 15
US-10-530-061-1714
; Sequence 1714, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 1714
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1714

Query Match      72.3%; Score 34; DB 9; Length 15;
Best Local Similarity 87.5%; Pred. No. 1;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIVAPIC 8
Db      8 TLGIVCPI 15
```

```

RESULT 16
US-10-511-937-2997
; Sequence 2997, Application US/10511937
; Publication No. US20060088836A1
; GENERAL INFORMATION:
; APPLICANT: EXPRESSION DIAGNOSTICS, INC.
; APPLICANT: Wohlgenuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; APPLICANT: Prentice, James
; APPLICANT: Morris, Macdonald
; APPLICANT: Rosenberg, Steven
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING
; AND MONITORING TRANSPLANT REJECTION
; FILE REFERENCE: 506612000104
; CURRENT APPLICATION NUMBER: US/10/511,937
; CURRENT FILING DATE: 2004-10-19
; PRIOR APPLICATION NUMBER: PCT/US2003/012946
; PRIOR FILING DATE: 2003-04-24
; PRIOR APPLICATION NUMBER: US 10/131,831
; PRIOR FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: US 10/325,899
; PRIOR FILING DATE: 2002-12-20
; NUMBER OF SEQ ID NOS: 3117
; SOFTWARE: Patentin version 3.2
```

```
; SEQ ID NO 2997
; LENGTH: 297
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-511-937-2997
```

```
Query Match          70.2%; Score 33; DB 8; Length 297;
Best Local Similarity 85.7%; Pred. No. 36;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      3 GIVAPIC 9
        |||||
Db       75 GIVAPIC 81
```

```
RESULT 17
US-11-138-949-7
; Sequence 7, Application US/11138949
; Publication No. US20050271662A1
; GENERAL INFORMATION:
; APPLICANT: Beall, Melissa J
; TITLE OF INVENTION: CANINE CD20 COMPOSITIONS
; FILE REFERENCE: 04-457A
; CURRENT APPLICATION NUMBER: US/11/138,949
; PRIOR FILING DATE: 2005-05-26
; PRIOR APPLICATION NUMBER: 60/575172
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 7
; LENGTH: 297
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-138-949-7
```

```
Query Match          70.2%; Score 33; DB 11; Length 297;
Best Local Similarity 85.7%; Pred. No. 36;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      3 GIVAPIC 9
        |||||
Db       75 GIVAPIC 81
```

```
RESULT 18
US-11-190-364-25
; Sequence 25, Application US/11190364
; Publication No. US20060024300A1
; GENERAL INFORMATION:
; APPLICANT: Adams ET AL.
; TITLE OF INVENTION: Immunoglobulin Variants and Uses Thereof
; FILE REFERENCE: P1990R3C1P1
; CURRENT APPLICATION NUMBER: US/11/190,364
; PRIOR FILING DATE: 2005-07-26
; PRIOR APPLICATION NUMBER: US 60/434,115
; PRIOR FILING DATE: 2002-12-16
; PRIOR APPLICATION NUMBER: US 60/526,163
; PRIOR FILING DATE: 2003-12-01
; PRIOR APPLICATION NUMBER: PCT/US03/40426
; PRIOR FILING DATE: 2003-12-16
; PRIOR APPLICATION NUMBER: US 11/147,780
; PRIOR FILING DATE: 2005-06-07
; NUMBER OF SEQ ID NOS: 38
; SEQ ID NO 25
; LENGTH: 297
; TYPE: PRT
; ORGANISM: Macaca fascicularis
US-11-190-364-25
```

```
Query Match          70.2%; Score 33; DB 11; Length 297;
Best Local Similarity 85.7%; Pred. No. 36;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      3 GIVAPIC 9
        |||||
Db       75 GIVAPIC 81
```

```
RESULT 19
US-11-190-364-26
; Sequence 26, Application US/11190364
; Publication No. US20060024300A1
; GENERAL INFORMATION:
; APPLICANT: Adams ET AL.
; TITLE OF INVENTION: Immunoglobulin Variants and Uses Thereof
; FILE REFERENCE: P1990R3C1P1
; CURRENT APPLICATION NUMBER: US/11/190,364
; PRIOR FILING DATE: 2005-07-26
; PRIOR APPLICATION NUMBER: US 60/434,115
; PRIOR FILING DATE: 2002-12-16
; PRIOR APPLICATION NUMBER: US 60/526,163
; PRIOR FILING DATE: 2003-12-01
; PRIOR APPLICATION NUMBER: PCT/US03/40426
; PRIOR FILING DATE: 2003-12-16
; PRIOR APPLICATION NUMBER: US 11/147,780
; PRIOR FILING DATE: 2005-06-07
; NUMBER OF SEQ ID NOS: 38
; SEQ ID NO 26
; LENGTH: 297
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-190-364-26
```

```
Query Match          70.2%; Score 33; DB 11; Length 297;
Best Local Similarity 85.7%; Pred. No. 36;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      3 GIVAPIC 9
        |||||
Db       75 GIVAPIC 81
```

```
RESULT 20
US-11-147-780-25
; Sequence 25, Application US/11147780
; Publication No. US20060034835A1
; GENERAL INFORMATION:
; APPLICANT: Adams ET AL.
; TITLE OF INVENTION: Immunoglobulin Variants and Uses Thereof
; FILE REFERENCE: P1990R3C1
; CURRENT APPLICATION NUMBER: US/11/147,780
; PRIOR FILING DATE: 2005-06-07
; PRIOR APPLICATION NUMBER: US 60/434,115
; PRIOR FILING DATE: 2002-12-16
; PRIOR APPLICATION NUMBER: US 60/526,163
; PRIOR FILING DATE: 2003-12-01
; PRIOR APPLICATION NUMBER: PCT/US03/40426
; PRIOR FILING DATE: 2003-12-16
; NUMBER OF SEQ ID NOS: 38
; SEQ ID NO 25
; LENGTH: 297
; TYPE: PRT
; ORGANISM: Macaca fascicularis
US-11-147-780-25
```

```
Query Match          70.2%; Score 33; DB 11; Length 297;
Best Local Similarity 85.7%; Pred. No. 36;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      3 GIVAPIC 9
        |||||
Db       75 GIVAPIC 81
```

```
RESULT 21
US-11-147-780-26
```

```
; Sequence 26, Application US/11147780
; Publication No. US20060034835A1
; GENERAL INFORMATION:
; APPLICANT: Adams ET AL.
; TITLE OF INVENTION: Immunoglobulin Variants and Uses Thereof
; FILE REFERENCE: P1990R3CI
; CURRENT APPLICATION NUMBER: US/11/147,780
; CURRENT FILING DATE: 2005-06-07
; PRIOR APPLICATION NUMBER: US 60/434,115
; PRIOR FILING DATE: 2002-12-16
; PRIOR APPLICATION NUMBER: US 60/526,163
; PRIOR FILING DATE: 2003-12-01
; PRIOR APPLICATION NUMBER: PCT/US03/40426
; PRIOR FILING DATE: 2003-12-16
; NUMBER OF SEQ ID NOS: 38
; SEQ ID NO 26
; LENGTH: 297
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-147-780-26

Query Match      70.2%; Score 33; DB 11; Length 297;
Best Local Similarity 85.7%; Pred. No. 36;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      3 GIVAPIC 9
      |||||
Db      75 GIVAPIC 81

RESULT 22
US-10-509-773-6
; Sequence 6, Application US/10509773
; Publication No. US20050281743A1
; GENERAL INFORMATION:
; APPLICANT: Delaney, Allen
; TITLE OF INVENTION: Cancer Associated Protein Phosphatases and their
; FILE REFERENCE: SMAR-044
; CURRENT APPLICATION NUMBER: US/10/509,773
; CURRENT FILING DATE: 2004-09-28
; PRIOR APPLICATION NUMBER: CA03/00393
; PRIOR FILING DATE: 2003-03-19
; PRIOR APPLICATION NUMBER: 60/368,859
; PRIOR FILING DATE: 2002-03-28
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 339
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (0)...(0)
; OTHER INFORMATION: PTPN7 polypeptide sequence
US-10-509-773-6

Query Match      70.2%; Score 33; DB 9; Length 339;
Best Local Similarity 66.7%; Pred. No. 42;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 TLGIVAPIC 9
      |||||
Db      33 SLGAVEPIC 41

RESULT 23
US-11-045-004-131
; Sequence 131, Application US/11045004
; Publication No. US20060078991A1
; GENERAL INFORMATION:
; APPLICANT: BUCHRIESEN, CARMEN
; APPLICANT: FRANGEUL, LIONEL
```

```
; APPLICANT: COUVE, ELISABETH
; APPLICANT: RUSNIK, CHRISTOPHE
; APPLICANT: RSHI, HAFIDA
; APPLICANT: DEROUX, PIERRE
; APPLICANT: DUSSENGET, OLIVIER
; APPLICANT: CHETOUANI, FARID
; APPLICANT: MEDJARI, HAFED
; APPLICANT: GLASER, PHILIPPE
; APPLICANT: KUNST, FRANK
; APPLICANT: COSSART, PASCALE
; APPLICANT: DANIELS, JUSTIN
; APPLICANT: GOEBEL, WERNER
; APPLICANT: KREFT, JURGEN
; APPLICANT: KUHN, MICHAEL
; APPLICANT: NG, EVA
; APPLICANT: VAZQUEZ-BOLAND, ANTONIO
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
; APPLICANT: GARRIDO-GARCIA, PATRICIA
; APPLICANT: TERRERZ-MARTINEZ, ALBERTO
; APPLICANT: AMEND, ALEXANDRA
; APPLICANT: CHAKRABORTY, TRINAD
; APPLICANT: DOMANN, EUGEN
; APPLICANT: HAIN, THORSTEN
; APPLICANT: BERCHER, PATRICK
; APPLICANT: CHARBIT, ALAIN
; APPLICANT: DURANT, LIONEL
; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
; APPLICANT: BAQUERO, FERNANDO
; APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
; APPLICANT: GOMEZ-LOPEZ, NURIA
; APPLICANT: MADUENIO, ENCARRA
; APPLICANT: PABLOS, BETRIZ DE
; APPLICANT: WEHLAND, JURGEN
; APPLICANT: KARST, UWE
; APPLICANT: ENTIAN, KARL-DIETER
; APPLICANT: HAUF, JORG
; APPLICANT: ROSE, MATTHIAS
; APPLICANT: VOSS, HANUT
; TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
; FILE REFERENCE: 05394.0018-02
; CURRENT APPLICATION NUMBER: US/11/045,004
; CURRENT FILING DATE: 2005-01-28
; PRIOR APPLICATION NUMBER: 10/637,657
; PRIOR FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: 10/257,023
; PRIOR FILING DATE: 2002-10-08
; PRIOR APPLICATION NUMBER: PCT/FR01/01118
; PRIOR FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: FR 00/04,629
; PRIOR FILING DATE: 2000-04-11
; NUMBER OF SEQ ID NOS: 2854
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 131
; LENGTH: 454
; TYPE: PRT
; ORGANISM: Listeria monocytogenes
US-11-045-004-131

Query Match      70.2%; Score 33; DB 11; Length 454;
Best Local Similarity 75.0%; Pred. No. 56;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIVAPIC 8
      |||||
Db      389 TLGIVAPV 396

RESULT 24
US-11-188-298-5636
; Sequence 5636, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
```

```

; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 5636
; LENGTH: 471
; TYPE: PRT
; ORGANISM: GIBBERELLA ZEAE PH-1
US-11-188-298-5636

```

```

Query Match          70.2%; Score 33; DB 11; Length 471;
Best Local Similarity 75.0%; Pred. No. 59;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      2 LGIVAPIC 9
      1111111111
Db      147 LGIVAPIC 154

```

```

RESULT 25
US-11-188-298-13779
; Sequence 13779, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 13779
; LENGTH: 599
; TYPE: PRT
; ORGANISM: Caulobacter crescentus CB15
US-11-188-298-13779

```

```

Query Match          70.2%; Score 33; DB 11; Length 599;
Best Local Similarity 87.5%; Pred. No. 75;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      1 TLGIVAPI 8
      1111111111
Db      19 TAGIVAPI 26

```

```

RESULT 26
US-10-530-061-662
; Sequence 662, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 662
; LENGTH: 10
; TYPE: PRT

```

```

; ORGANISM: Human papillomavirus
US-10-530-061-662

```

```

Query Match          68.1%; Score 32; DB 9; Length 10;
Best Local Similarity 71.4%; Pred. No. 17;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      3 GIVAPIC 9
      1111111111
Db      1 GLVCPIC 7

```

```

RESULT 27
US-10-118-590-12
; Sequence 12, Application US/10118590
; Publication No. US2005027761A1
; GENERAL INFORMATION:
; APPLICANT: KENNETH RHODES, MARIA BETTY, HUAI-PING LING, AND FRANK AN
; TITLE OF INVENTION: POTASSIUM CHANNEL INTERACTORS AND USES THEREFOR
; FILE REFERENCE: NMT-070
; CURRENT APPLICATION NUMBER: US/10/118,590
; CURRENT FILING DATE: 2002-04-08
; PRIOR APPLICATION NUMBER: US/09/298,731
; PRIOR FILING DATE: 1999-04-23
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 203
; TYPE: PRT
; ORGANISM: Rattus sp.
US-10-118-590-12

```

```

Query Match          68.1%; Score 32; DB 9; Length 203;
Best Local Similarity 66.7%; Pred. No. 39;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

QY      1 TLGIVAPIC 9
      1111111111
Db      12 TLGIVAPIC 20

```

```

RESULT 28
US-11-096-568A-23843
; Sequence 23843, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 23843
; LENGTH: 224
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(124)
; OTHER INFORMATION: Ceres Seq. ID no. 12415696
US-11-096-568A-23843

```

```

Query Match          68.1%; Score 32; DB 11; Length 224;
Best Local Similarity 50.0%; Pred. No. 43;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      2 LGIVAPIC 9
      1111111111
Db      162 ISVAVPVC 169

```

```

RESULT 29

```



```
US-11-096-568A-23842
; Sequence 23842, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 23842
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(225)
; OTHER INFORMATION: Ceres Seq. ID no. 12415695
US-11-096-568A-23842

Query Match      68.1%; Score 32; DB 11; Length 225;
Best Local Similarity 50.0%; Pred. No. 44;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy      2 LGIAPIC 9
Db      163 ISVAPVC 170

RESULT 30
US-10-118-590-4
; Sequence 4, Application US/10118590
; Publication No. US2005027761A1
; GENERAL INFORMATION:
; APPLICANT: KENNETH RHODES, MARIA BETTY, HUAI-PING LING, AND FRANK AN
; TITLE OF INVENTION: POTASSIUM CHANNEL INTERACTORS AND USES THEREFOR
; FILE REFERENCE: NMI-070
; CURRENT APPLICATION NUMBER: US/10/118,590
; CURRENT FILING DATE: 2002-04-08
; PRIOR APPLICATION NUMBER: US/09/298,731
; PRIOR FILING DATE: 1999-04-23
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 245
; TYPE: PRT
; ORGANISM: Rattus sp.
US-10-118-590-4

Query Match      68.1%; Score 32; DB 9; Length 245;
Best Local Similarity 66.7%; Pred. No. 48;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy      1 TLGIAPIC 9
Db      25 TLGIWVVC 33

RESULT 31
US-11-096-568A-23841
; Sequence 23841, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 23841
; LENGTH: 248
```

```
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(248)
; OTHER INFORMATION: Ceres Seq. ID no. 12415694
US-11-096-568A-23841

Query Match      68.1%; Score 32; DB 11; Length 248;
Best Local Similarity 50.0%; Pred. No. 48;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy      2 LGIAPIC 9
Db      186 ISVAPVC 193

RESULT 32
US-11-098-686-11027
; Sequence 11027, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
; APPLICANT: Kapur, Vivek and Gebhart, Connie J.
; TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
; TITLE OF INVENTION: FROM LAWSONIA INTRACELLULARIS AND METHODS OF USING
; FILE REFERENCE: 09531-128001
; CURRENT APPLICATION NUMBER: US/11/098,686
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31318
; PRIOR FILING DATE: 2003-10-01
; PRIOR APPLICATION NUMBER: US 60/416,395
; PRIOR FILING DATE: 2002-10-04
; NUMBER OF SEQ ID NOS: 11433
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11027
; LENGTH: 277
; TYPE: PRT
; ORGANISM: Lawsonia intracellularis
US-11-098-686-11027

Query Match      68.1%; Score 32; DB 11; Length 277;
Best Local Similarity 44.4%; Pred. No. 54;
Matches 4; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy      1 TLGIAPIC 9
Db      105 TLAVIDVC 113

RESULT 33
US-11-138-949-8
; Sequence 8, Application US/11138949
; Publication No. US20050271662A1
; GENERAL INFORMATION:
; APPLICANT: Beall, Melissa J
; TITLE OF INVENTION: CANINE CD20 COMPOSITIONS
; FILE REFERENCE: 04-457A
; CURRENT APPLICATION NUMBER: US/11/138,949
; CURRENT FILING DATE: 2005-05-26
; PRIOR APPLICATION NUMBER: 60/575172
; PRIOR FILING DATE: 2004-05-28
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 8
; LENGTH: 291
; TYPE: PRT
; ORGANISM: Mus musculus
US-11-138-949-8

Query Match      68.1%; Score 32; DB 11; Length 291;
Best Local Similarity 71.4%; Pred. No. 57;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

QY 3 LGIVAPIC 9  
| : |||  
Db 68 LGFVLPC 74

## RESULT 34

US-11-040-218-75  
; Sequence 75, Application US/11040218  
; Publication No. US20060029983A1  
; GENERAL INFORMATION:  
; APPLICANT: OAKLEY, ROBERT H.  
; APPLICANT: HUDSON, CHRISTINE C.  
; TITLE OF INVENTION: CONSTITUTIVELY TRANSLOCATING CELL LINE  
; FILE REFERENCE: NRK.108  
; CURRENT APPLICATION NUMBER: US/11/040,218  
; PRIOR FILING DATE: 2005-01-21  
; PRIOR APPLICATION NUMBER: US/10/788,197  
; PRIOR FILING DATE: 2004-02-26  
; PRIOR APPLICATION NUMBER: PCT/US03/14581  
; PRIOR FILING DATE: 2003-05-12  
; PRIOR APPLICATION NUMBER: 60/379,986  
; PRIOR FILING DATE: 2002-05-13  
; PRIOR APPLICATION NUMBER: 60/401,698  
; PRIOR FILING DATE: 2002-08-07  
; NUMBER OF SEQ ID NOS: 94  
; SOFTWARE: Patentln Ver. 3.2  
; SEQ ID NO 75  
; LENGTH: 333  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; NAME/KEY: MOD\_RES  
; LOCATION: (305)  
; OTHER INFORMATION: Variable amino acid  
US-11-040-218-75

Query Match 68.1%; Score 32; DB 11; Length 333;  
Best Local Similarity 62.5%; Pred. No. 65;  
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2 LGIVAPIC 9  
| : |||  
Db 219 LGFVLPC 226

## RESULT 35

US-11-040-218-77  
; Sequence 77, Application US/11040218  
; Publication No. US20060029983A1  
; GENERAL INFORMATION:  
; APPLICANT: OAKLEY, ROBERT H.  
; APPLICANT: HUDSON, CHRISTINE C.  
; TITLE OF INVENTION: CONSTITUTIVELY TRANSLOCATING CELL LINE  
; FILE REFERENCE: NRK.108  
; CURRENT APPLICATION NUMBER: US/11/040,218  
; PRIOR FILING DATE: 2005-01-21  
; PRIOR APPLICATION NUMBER: US/10/788,197  
; PRIOR FILING DATE: 2004-02-26  
; PRIOR APPLICATION NUMBER: PCT/US03/14581  
; PRIOR FILING DATE: 2003-05-12  
; PRIOR APPLICATION NUMBER: 60/379,986  
; PRIOR FILING DATE: 2002-05-13  
; PRIOR APPLICATION NUMBER: 60/401,698  
; PRIOR FILING DATE: 2002-08-07  
; NUMBER OF SEQ ID NOS: 94  
; SOFTWARE: Patentln Ver. 3.2  
; SEQ ID NO 77  
; LENGTH: 347  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; NAME/KEY: MOD\_RES  
; LOCATION: (319)

; OTHER INFORMATION: Variable amino acid  
US-11-040-218-77

Query Match 68.1%; Score 32; DB 11; Length 347;  
Best Local Similarity 62.5%; Pred. No. 68;  
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2 LGIVAPIC 9  
| : |||  
Db 233 LGFVLPC 240

## RESULT 36

US-11-040-218-79  
; Sequence 79, Application US/11040218  
; Publication No. US20060029983A1  
; GENERAL INFORMATION:  
; APPLICANT: OAKLEY, ROBERT H.  
; APPLICANT: HUDSON, CHRISTINE C.  
; TITLE OF INVENTION: CONSTITUTIVELY TRANSLOCATING CELL LINE  
; FILE REFERENCE: NRK.108  
; CURRENT APPLICATION NUMBER: US/11/040,218  
; PRIOR FILING DATE: 2005-01-21  
; PRIOR APPLICATION NUMBER: US/10/788,197  
; PRIOR FILING DATE: 2004-02-26  
; PRIOR APPLICATION NUMBER: PCT/US03/14581  
; PRIOR FILING DATE: 2003-05-12  
; PRIOR APPLICATION NUMBER: 60/379,986  
; PRIOR FILING DATE: 2002-05-13  
; PRIOR APPLICATION NUMBER: 60/401,698  
; PRIOR FILING DATE: 2002-08-07  
; NUMBER OF SEQ ID NOS: 94  
; SOFTWARE: Patentln Ver. 3.2  
; SEQ ID NO 79  
; LENGTH: 364  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-040-218-79

Query Match 68.1%; Score 32; DB 11; Length 364;  
Best Local Similarity 62.5%; Pred. No. 72;  
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2 LGIVAPIC 9  
| : |||  
Db 219 LGFVLPC 226

## RESULT 37

US-11-040-218-81  
; Sequence 81, Application US/11040218  
; Publication No. US20060029983A1  
; GENERAL INFORMATION:  
; APPLICANT: OAKLEY, ROBERT H.  
; APPLICANT: HUDSON, CHRISTINE C.  
; TITLE OF INVENTION: CONSTITUTIVELY TRANSLOCATING CELL LINE  
; FILE REFERENCE: NRK.108  
; CURRENT APPLICATION NUMBER: US/11/040,218  
; PRIOR FILING DATE: 2005-01-21  
; PRIOR APPLICATION NUMBER: US/10/788,197  
; PRIOR FILING DATE: 2004-02-26  
; PRIOR APPLICATION NUMBER: PCT/US03/14581  
; PRIOR FILING DATE: 2003-05-12  
; PRIOR APPLICATION NUMBER: 60/379,986  
; PRIOR FILING DATE: 2002-05-13  
; PRIOR APPLICATION NUMBER: 60/401,698  
; PRIOR FILING DATE: 2002-08-07  
; NUMBER OF SEQ ID NOS: 94  
; SOFTWARE: Patentln Ver. 3.2  
; SEQ ID NO 81  
; LENGTH: 378  
; TYPE: PRT  
; ORGANISM: Homo sapiens



Db 583 SLGLDAPLC 591

## RESULT 42

US-11-188-298-5921  
; Sequence 5921, Application US/11188298  
; Publication No. US2006075522A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
; FILE REFERENCE: 38-21(53452)B  
; CURRENT APPLICATION NUMBER: US/11/188,298  
; PRIOR FILING DATE: 2005-07-22  
; PRIOR FILING DATE: 2004-07-31  
; NUMBER OF SEQ ID NOS: 22569  
; SEQ ID NO 5921  
; LENGTH: 676  
; TYPE: PRT  
; ORGANISM: Populus nigra  
US-11-188-298-5921

Query Match 68.1%; Score 32; DB 11; Length 676;  
Best Local Similarity 55.6%; Pred. No. 1.4e+02;  
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 TLGIVAPIC 9  
Db 517 TMGYIAPEC 525

## RESULT 43

US-11-188-298-19329  
; Sequence 19329, Application US/11188298  
; Publication No. US2006075522A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
; FILE REFERENCE: 38-21(53452)B  
; CURRENT APPLICATION NUMBER: US/11/188,298  
; CURRENT FILING DATE: 2005-07-22  
; PRIOR APPLICATION NUMBER: 60/592,978  
; PRIOR FILING DATE: 2004-07-31  
; NUMBER OF SEQ ID NOS: 22569  
; SEQ ID NO 19329  
; LENGTH: 1160  
; TYPE: PRT  
; ORGANISM: Oryza sativa  
US-11-188-298-19329

Query Match 68.1%; Score 32; DB 11; Length 1160;  
Best Local Similarity 50.0%; Pred. No. 2.4e+02;  
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 2 LGIVAPIC 9  
Db 381 LGCISFVC 388

## RESULT 44

US-10-942-072-6  
; Sequence 6, Application US/10942072  
; Publication No. US20050250721A1  
; GENERAL INFORMATION:  
; APPLICANT: Hammon, H. K.  
; APPLICANT: Inseel, P. A.  
; APPLICANT: Ping, P.  
; APPLICANT: Post, S. R.  
; APPLICANT: Gao, M.  
; TITLE OF INVENTION: GENE THERAPY FOR CONGESTIVE HEART  
; FILE REFERENCE: 220002056723  
; CURRENT APPLICATION NUMBER: US/10/942,072

; CURRENT FILING DATE: 2004-09-14  
; PRIOR APPLICATION NUMBER: US/09/750,240  
; PRIOR FILING DATE: 2001-10-12  
; PRIOR APPLICATION NUMBER: US 09/472,667  
; PRIOR FILING DATE: 1999-12-27  
; PRIOR APPLICATION NUMBER: US 09/008,097  
; PRIOR FILING DATE: 1998-01-16  
; PRIOR APPLICATION NUMBER: US 08/924,757  
; PRIOR FILING DATE: 1997-09-05  
; PRIOR APPLICATION NUMBER: US 60/048,933  
; PRIOR FILING DATE: 1997-06-16  
; PRIOR APPLICATION NUMBER: US 08/708,661  
; PRIOR FILING DATE: 1996-09-05  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 6  
; LENGTH: 1167  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-942-072-6

Query Match 68.1%; Score 32; DB 9; Length 1167;  
Best Local Similarity 55.6%; Pred. No. 2.4e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIVAPIC 9  
Db 794 SLGLDAPLC 802

## RESULT 45

US-10-942-072-13  
; Sequence 13, Application US/10942072  
; Publication No. US20050250721A1  
; GENERAL INFORMATION:  
; APPLICANT: Hammon, H. K.  
; APPLICANT: Inseel, P. A.  
; APPLICANT: Ping, P.  
; APPLICANT: Post, S. R.  
; APPLICANT: Gao, M.  
; TITLE OF INVENTION: GENE THERAPY FOR CONGESTIVE HEART  
; FILE REFERENCE: 220002056723  
; CURRENT APPLICATION NUMBER: US/10/942,072  
; CURRENT FILING DATE: 2004-09-14  
; PRIOR APPLICATION NUMBER: US/09/750,240  
; PRIOR FILING DATE: 2001-10-12  
; PRIOR APPLICATION NUMBER: US 09/472,667  
; PRIOR FILING DATE: 1999-12-27  
; PRIOR APPLICATION NUMBER: US 09/008,097  
; PRIOR FILING DATE: 1998-01-16  
; PRIOR APPLICATION NUMBER: US 08/924,757  
; PRIOR FILING DATE: 1997-09-05  
; PRIOR APPLICATION NUMBER: US 60/048,933  
; PRIOR FILING DATE: 1997-06-16  
; PRIOR APPLICATION NUMBER: US 08/708,661  
; PRIOR FILING DATE: 1996-09-05  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 13  
; LENGTH: 1167  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Modified AC-VI  
US-10-942-072-13

Query Match 68.1%; Score 32; DB 9; Length 1167;  
Best Local Similarity 55.6%; Pred. No. 2.4e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIVAPIC 9

Db 794 SLGADAPLC 802

RESULT 46

US-10-942-072-11  
; Sequence 11, Application US/10942072  
; Publication No. US20050250721A1  
; GENERAL INFORMATION:  
; APPLICANT: Hammon, H. K.  
; APPLICANT: Insel, P. A.  
; APPLICANT: Ping, P. A.  
; APPLICANT: Post, S. R.  
; APPLICANT: Gao, M.  
; TITLE OF INVENTION: GENE THERAPY FOR CONGESTIVE HEART  
; TITLE OF INVENTION: FAILURE  
; FILE REFERENCE: 22002056723  
; CURRENT APPLICATION NUMBER: US/10/942,072  
; CURRENT FILING DATE: 2004-09-14  
; PRIOR APPLICATION NUMBER: US/09/750,240  
; PRIOR FILING DATE: 2001-10-12  
; PRIOR APPLICATION NUMBER: US 09/472,667  
; PRIOR FILING DATE: 1999-12-27  
; PRIOR APPLICATION NUMBER: US 09/008,097  
; PRIOR FILING DATE: 1998-01-16  
; PRIOR APPLICATION NUMBER: US 08/924,757  
; PRIOR FILING DATE: 1997-09-05  
; PRIOR APPLICATION NUMBER: US 60/048,933  
; PRIOR FILING DATE: 1997-06-16  
; PRIOR APPLICATION NUMBER: US 08/708,661  
; PRIOR FILING DATE: 1996-09-05  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 11  
; LENGTH: 1168  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-942-072-11

Query Match 68.1%; Score 32; DB 9; Length 1168;  
Best Local Similarity 55.6%; Pred. No. 2.4e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIVAPIC 9  
Db 795 SLGADAPLC 803

RESULT 47  
US-10-530-253-30  
; Sequence 30, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Cassecci, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 30  
; LENGTH: 99  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 35  
US-10-530-253-30

Query Match 66.0%; Score 31; DB 9; Length 99;

Best Local Similarity 66.7%; Pred. No. 30;  
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 TLGIVAPIC 9  
Db 87 TFGVCPGC 95

RESULT 48  
US-10-530-253-37  
; Sequence 37, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Cassecci, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 37  
; LENGTH: 107  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 59  
US-10-530-253-37

Query Match 66.0%; Score 31; DB 9; Length 107;  
Best Local Similarity 55.6%; Pred. No. 32;  
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 TLGIVAPIC 9  
Db 95 TLFVCPIC 103

RESULT 49  
US-10-505-928-165  
; Sequence 165, Application US/10505928  
; Publication No. US20060088532A1  
; GENERAL INFORMATION:  
; APPLICANT: Ludwig Institute for Cancer Research et al.  
; TITLE OF INVENTION: LYMPHATIC ENDOTHELIAL GENES  
; FILE REFERENCE: 28967/39178  
; CURRENT APPLICATION NUMBER: US/10/505,928  
; CURRENT FILING DATE: 2004-08-27  
; PRIOR APPLICATION NUMBER: US 60/363,019  
; PRIOR FILING DATE: 2002-03-07  
; NUMBER OF SEQ ID NOS: 866  
; SOFTWARE: PatentIn 3.2  
; SEQ ID NO 165  
; LENGTH: 175  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-505-928-165

Query Match 66.0%; Score 31; DB 8; Length 175;  
Best Local Similarity 83.3%; Pred. No. 54;  
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 4 IVAPIC 9  
Db 150 IIVAPIC 155

RESULT 50  
US-11-057-012-56

/ Sequence 56, Application US/11057012  
/ Publication No. US20060026705A1  
/ GENERAL INFORMATION:  
/ APPLICANT: Allen, Stephen M.  
/ APPLICANT: Kinney, Anthony J.  
/ APPLICANT: Liu, Zhan-Bin  
/ APPLICANT: Stecca, Kevin L.  
/ TITLE OF INVENTION: Plant Amino Acid Biosynthetic Enzymes  
/ FILE REFERENCE: B8116 US CIP - 1  
/ CURRENT APPLICATION NUMBER: US/11/057,012  
/ CURRENT FILING DATE: 2005-02-11  
/ PRIOR APPLICATION NUMBER: 09/931,457  
/ PRIOR FILING DATE: 2001-08-16  
/ PRIOR APPLICATION NUMBER: 09/424,976  
/ PRIOR FILING DATE: 1999-12-02  
/ PRIOR APPLICATION NUMBER: 60/065,385  
/ PRIOR FILING DATE: 1997-11-12  
/ PRIOR APPLICATION NUMBER: 60/049,406  
/ PRIOR FILING DATE: 1997-06-12  
/ NUMBER OF SEQ ID NOS: 94  
/ SOFTWARE: Microsoft Office 97  
/ SEQ ID NO 56  
/ LENGTH: 192  
/ TYPE: PRT  
/ ORGANISM: Trillium aestivum  
US-11-057-012-56

Query Match 66.0%; Score 31; DB 11; Length 192;

Best Local Similarity 55.6%; Pred. No. 59;

Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

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Db 109 TFDIVGPVC 117

Search completed: May 5, 2006, 08:07:47  
Job time : 9.5 secs

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OM protein - protein search, using sw model

Run on: May 5, 2006, 05:36:41 ; Search time 20.9 Seconds  
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Title: US-08-170-344-21

Perfect score: 49  
Sequence: 1 KLPDLCTEL 9

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

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Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database : Issued Patents AA.\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

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4	49	100.0	158 2 US-08-767-942A-19	Sequence 19, Appli
5	49	100.0	271 1 US-08-117-083-14	Sequence 14, Appli
6	49	100.0	278 2 US-09-485-885-21	Sequence 21, Appli
7	49	100.0	383 2 US-09-485-885-22	Sequence 23, Appli
8	43	87.8	9 1 US-08-787-547-101	Sequence 101, App
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15	43	87.8	162 1 US-08-316-239B-4	Sequence 3, Appli
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30	81.6	89 2	US-09-543-681A-7711	Sequence 7711, Ap
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115	31	63.3	70	2	US-09-430-029-2	Sequence 2, App1	188	31	63.3	1239	2	US-09-949-016-10063	Sequence 10063, Ap
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117	31	63.3	76	1	US-08-480-478-58	Sequence 58, App1	190	31	63.3	4966	2	US-09-296-663-34	Sequence 34, App1
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154	31	63.3	525	2	US-08-524-051-2	Sequence 2, App11	227	30	61.2	296	2	US-09-543-681A-6956	Sequence 6956, Ap
155	31	63.3	554	2	US-09-052-778-16	Sequence 16, App1	228	30	61.2	307	1	US-08-948-616-3	Sequence 3, App11
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162	31	63.3	620	2	US-09-026-001A-18	Sequence 18, App1	235	30	61.2	423	2	US-09-387-113-4	Sequence 4, App11
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165	31	63.3	621	2	US-09-489-039A-13113	Sequence 13113, A	238	30	61.2	491	2		
166	31	63.3	635	2	US-09-543-681A-6140	Sequence 6140, Ap	239	30	61.2				
167	31	63.3	722	2	US-09-134-001C-5482	Sequence 5482, Ap	240	30	61.2				
168	31	63.3	757	2	US-09-538-092-520	Sequence 520, App	241	30	61.2				
169	31	63.3	844	2	US-09-949-016-9438	Sequence 9438, Ap	242	30	61.2				
170	31	63.3	885	2	US-09-538-092-1319	Sequence 1319, Ap	243	30	61.2				
171	31	63.3	920	2	US-09-763-620-35	Sequence 35, App1	244	30	61.2				
172	31	63.3	971	1	US-08-480-662-2	Sequence 2, App11	245	30	61.2				
173	31	63.3					246	30	61.2				



247	30	61.2	499	2	US-09-328-352-5415	Sequence 5415, Ap	320	29	59.2	267	2	US-09-248-796A-15422	Sequence 15422, A
248	30	61.2	511	2	US-09-248-796A-16380	Sequence 16380, A	321	29	59.2	272	2	US-09-270-767-46084	Sequence 46084, A
249	30	61.2	545	2	US-09-270-767-46738	Sequence 46738, A	322	29	59.2	272	2	US-10-141-604-6	Sequence 6, Appl1
250	30	61.2	589	2	US-10-261-164-2	Sequence 2, Appl1	323	29	59.2	280	2	US-09-270-767-32909	Sequence 32909, A
251	30	61.2	521	2	US-09-248-796A-14458	Sequence 14458, A	324	29	59.2	280	2	US-09-270-767-48126	Sequence 48126, A
252	30	61.2	621	2	US-09-385-219A-56	Sequence 56, Appl1	325	29	59.2	282	2	US-09-252-991A-29144	Sequence 29144, A
253	30	61.2	621	2	US-09-949-016-11562	Sequence 11562, A	326	29	59.2	282	2	US-09-902-540-15311	Sequence 15311, A
254	30	61.2	641	2	US-09-687-538B-8	Sequence 8, Appl1	327	29	59.2	292	2	US-09-199-637A-419	Sequence 419, App
255	30	61.2	641	2	US-10-309-437-8	Sequence 8, Appl1	328	29	59.2	294	2	US-09-538-092-215	Sequence 215, App
256	30	61.2	664	2	US-09-270-767-42926	Sequence 42926, A	329	29	59.2	306	2	US-09-134-001C-3516	Sequence 3516, App
257	30	61.2	668	2	US-09-302-812-6	Sequence 6, Appl1	330	29	59.2	307	2	US-09-543-681A-6849	Sequence 6849, Ap
258	30	61.2	668	2	US-09-511-477-6	Sequence 6, Appl1	331	29	59.2	317	2	US-09-583-110-3269	Sequence 3269, Ap
259	30	61.2	968	2	US-09-511-507-6	Sequence 6, Appl1	332	29	59.2	318	2	US-09-252-991A-11174	Sequence 11174, A
260	30	61.2	968	2	US-09-973-451-6	Sequence 6, Appl1	333	29	59.2	321	1	US-08-780-370A-2	Sequence 2, Appl1
261	30	61.2	976	2	US-09-302-812-4	Sequence 4, Appl1	334	29	59.2	321	2	US-09-251-330-2	Sequence 2, Appl1
262	30	61.2	976	2	US-09-511-477-4	Sequence 4, Appl1	335	29	59.2	330	2	US-10-104-047-2839	Sequence 2839, Ap
263	30	61.2	976	2	US-09-511-507-4	Sequence 4, Appl1	336	29	59.2	332	1	US-08-960-756-4	Sequence 4, Appl1
264	30	61.2	976	2	US-09-973-451-4	Sequence 4, Appl1	337	29	59.2	332	2	US-10-141-604-2	Sequence 9, Appl1
265	30	61.2	977	2	US-09-302-812-2	Sequence 2, Appl1	338	29	59.2	340	2	US-09-902-540-10798	Sequence 10798, A
266	30	61.2	977	2	US-09-511-477-2	Sequence 2, Appl1	339	29	59.2	340	2	US-09-248-796A-15257	Sequence 15257, A
267	30	61.2	977	2	US-09-511-507-2	Sequence 2, Appl1	340	29	59.2	349	2	US-08-591-685-7	Sequence 7, Appl1
268	30	61.2	977	2	US-09-973-451-2	Sequence 2, Appl1	341	29	59.2	353	2	US-09-489-039A-13640	Sequence 6513, Ap
269	30	61.2	1065	2	US-09-375-419-9	Sequence 9, Appl1	342	29	59.2	357	2	US-09-543-681A-6513	Sequence 1070, Ap
270	30	61.2	1065	2	US-08-789-078-2	Sequence 2, Appl1	343	29	59.2	358	2	US-09-198-452A-1070	Sequence 997, App
271	30	61.2	1170	1	US-08-752-633-2	Sequence 2, Appl1	344	29	59.2	360	2	US-09-438-185A-997	Sequence 13, Appl
272	30	61.2	1170	1	US-08-752-633-2	Sequence 2, Appl1	345	29	59.2	360	1	US-08-459-346-13	Sequence 4, Appl1
273	30	61.2	1170	4	PCT-US95-04886-2	Sequence 1, Appl1	346	29	59.2	360	1	US-08-411-607A-4	Sequence 13, Appl
274	30	61.2	1170	4	PCT-US95-04886-2	Sequence 13945, A	347	29	59.2	360	2	US-08-889-419-13	Sequence 13, Appl
275	30	61.2	1323	2	US-09-252-991A-17932	Sequence 17932, A	348	29	59.2	360	2	US-08-402-542-13	Sequence 4, Appl1
276	30	61.2	1326	2	US-09-900-425B-2	Sequence 2, Appl1	349	29	59.2	360	2	US-09-361-741-4	Sequence 4, Appl1
277	30	61.2	1374	2	US-08-938-105-3	Sequence 3, Appl1	350	29	59.2	360	2	US-09-461-418-4	Sequence 13, Appl
278	30	61.2	1886	2	US-09-538-092-916	Sequence 916, App	351	29	59.2	360	4	PCT-US93-07189-13	Sequence 7, Appl1
279	30	61.2	1935	2	US-09-538-092-918	Sequence 918, App	352	29	59.2	367	2	US-09-107-476-3289	Sequence 3289, Ap
280	30	61.2	1937	2	US-09-310-187A-1	Sequence 1, Appl1	353	29	59.2	370	2	US-09-543-681A-7421	Sequence 7421, Ap
281	30	61.2	1939	2	US-09-538-082-515	Sequence 915, App	354	29	59.2	371	2	US-08-586-165-5	Sequence 5, Appl1
282	30	61.2	1939	2	US-09-538-092-917	Sequence 917, App	355	29	59.2	372	2	US-09-270-767-41464	Sequence 8, Appl1
283	30	61.2	1939	2	US-09-538-092-917	Sequence 915, App	356	29	59.2	373	2	US-09-039-198A-14	Sequence 14, Appl
284	30	61.2	1939	2	US-09-949-016-5925	Sequence 6255, App	357	29	59.2	373	2	US-09-039-198A-15	Sequence 15, Appl
285	30	61.2	1939	2	US-09-949-016-11104	Sequence 11104, A	358	29	59.2	373	2	US-08-877-599-15	Sequence 15, Appl
286	30	61.2	1940	2	US-09-538-092-901	Sequence 901, App	359	29	59.2	373	2	US-08-877-599-15	Sequence 14, Appl
287	30	61.2	1942	2	US-09-949-016-1135	Sequence 8135, App	360	29	59.2	373	2	US-09-267-574-15	Sequence 15, Appl
288	30	61.2	1944	2	US-09-949-016-10929	Sequence 8888, App	361	29	59.2	381	2	US-09-149-476-460	Sequence 460, App
289	30	61.2	1963	2	US-09-949-016-8888	Sequence 29, Appl	362	29	59.2	387	1	US-08-968-751-6	Sequence 6, Appl1
290	30	61.2	2987	1	US-08-970-269A-29	Sequence 29, Appl	363	29	59.2	387	2	US-09-313-623-6	Sequence 6, Appl1
291	30	61.2	2987	1	US-08-970-269A-30	Sequence 30, Appl	364	29	59.2	387	2	US-09-977-827-6	Sequence 6, Appl1
292	30	61.2	3959	1	US-08-407-562-30	Sequence 30, Appl	365	29	59.2	391	2	US-09-721-870-38	Sequence 38, App
293	30	61.2	3959	2	US-09-407-562-30	Sequence 17333, A	366	29	59.2	391	2	US-09-258-754-449	Sequence 449, App
294	29.5	60.2	659	2	US-09-252-991A-17333	Sequence 2, Appl1	367	29	59.2	409	2	US-09-676-475A-449	Sequence 450, App
295	29	59.2	15	1	US-07-909-122-2	Sequence 52, Appl	368	29	59.2	410	2	US-09-676-475A-450	Sequence 451, App
296	29	59.2	15	2	US-08-075-541D-52	Sequence 52, Appl	369	29	59.2	410	2	US-09-676-475A-451	Sequence 452, App
297	29	59.2	23	1	US-08-363-586-3	Sequence 3, Appl1	370	29	59.2	410	2	US-09-676-475A-452	Sequence 453, App
298	29	59.2	23	1	US-08-687-702-6	Sequence 6, Appl1	371	29	59.2	411	2	US-09-258-754-448	Sequence 448, App
299	29	59.2	26	1	US-08-467-587A-16	Sequence 16, Appl	372	29	59.2	411	2	US-09-676-475A-448	Sequence 448, App
299	29	59.2	26	1	US-08-467-587A-16	Sequence 5425, App	373	29	59.2	411	2	US-09-198-452A-120	Sequence 120, App
300	29	59.2	56	2	US-09-621-976-5425	Sequence 13, Appl	374	29	59.2	411	2	US-09-438-185A-104	Sequence 4, Appl1
301	29	59.2	72	1	US-08-542-363-13	Sequence 13, Appl	375	29	59.2	411	2	US-09-151-011-4	Sequence 4, Appl1
302	29	59.2	72	2	US-09-670-827-13	Sequence 13, Appl	376	29	59.2	411	2	US-09-039-198A-2	Sequence 2, Appl1
303	29	59.2	72	2	US-09-670-827-13	Sequence 13, Appl	377	29	59.2	411	2	US-09-039-198A-4	Sequence 4, Appl1
304	29	59.2	72	2	US-09-827-949-13	Sequence 13, Appl	378	29	59.2	411	2	US-08-877-599-2	Sequence 2, Appl1
305	29	59.2	72	2	US-09-248-796A-21511	Sequence 21511, A	379	29	59.2	411	2	US-08-877-599-2	Sequence 4, Appl1
306	29	59.2	89	2	US-09-621-976-6768	Sequence 6768, App	380	29	59.2	411	2	US-08-877-599-2	Sequence 4, Appl1
307	29	59.2	102	2	US-08-477-347-9	Sequence 9, Appl1	381	29	59.2	411	2	US-08-877-599-2	Sequence 4, Appl1
308	29	59.2	102	2	US-09-800-908-9	Sequence 9, Appl1	382	29	59.2	411	2	US-08-877-599-2	Sequence 4, Appl1
309	29	59.2	109	2	US-09-270-767-61636	Sequence 61636, A	383	29	59.2	411	2	US-08-877-599-2	Sequence 4, Appl1
310	29	59.2	123	2	US-09-270-767-39247	Sequence 39247, A	384	29	59.2	411	2	US-08-877-599-2	Sequence 4, Appl1
311	29	59.2	123	2	US-09-270-767-54464	Sequence 54464, A	385	29	59.2	411	2	US-08-877-599-2	Sequence 4, Appl1
312	29	59.2	135	2	US-09-489-039A-10659	Sequence 10659, A	386	29	59.2	411	2	US-08-877-599-2	Sequence 4, Appl1
313	29	59.2	148	2	US-09-270-767-43240	Sequence 43240, A	387	29	59.2	411	2	US-08-877-599-2	Sequence 4, Appl1
314	29	59.2	181	2	US-10-141-604-7	Sequence 7, Appl1	388	29	59.2	411	2	US-08-877-599-2	Sequence 4, Appl1
315	29	59.2	206	2	US-09-270-767-44691	Sequence 44691, A	389	29	59.2	411	2	US-08-877-599-2	Sequence 4, Appl1
316	29	59.2	225	2	US-09-270-767-39025	Sequence 39025, A	390	29	59.2	411	2	US-08-877-599-2	Sequence 4, Appl1
317	29	59.2	225	2	US-09-270-767-54242	Sequence 54242, A	391	29	59.2	411	2	US-08-877-599-2	Sequence 4, Appl1
318	29	59.2	255	2	US-09-270-767-41713	Sequence 41713, A	392	29	59.2	411	2	US-08-877-599-2	Sequence 4, Appl1
319	29	59.2	265	2	US-10-141-604-5	Sequence 5, Appl1	392	29	59.2	411	2	US-08-877-599-2	Sequence 4, Appl1

393	29	59.2	466	2	US-09-267-574-2	Sequence 2, Appl1	466	29	59.2	1620	2	US-09-827-949-2	Sequence 2, Appl1	
394	29	59.2	466	2	US-09-267-574-4	Sequence 4, Appl1	467	29	59.2	1711	2	US-08-369-822C-10	Sequence 10, Appl	
395	29	59.2	466	2	US-09-977-827-4	Sequence 4, Appl1	468	29	59.2	1711	2	US-08-582-776C-10	Sequence 10, Appl	
396	29	59.2	512	2	US-09-464-377-9	Sequence 9, Appl1	469	29	59.2	1711	2	US-08-434-831B-10	Sequence 10, Appl	
397	29	59.2	522	2	US-09-949-016-10663	Sequence 10663, A	470	29	59.2	2220	2	US-09-335-011-1	Sequence 1, Appl1	
398	29	59.2	525	1	US-08-160-861-4	Sequence 4, Appl1	471	29	59.2	2476	1	US-08-276-667-2	Sequence 2, Appl1	
399	29	59.2	530	2	US-08-979-608A-8	Sequence 8, Appl1	472	29	59.2	3418	1	US-08-639-501-2	Sequence 2, Appl1	
400	29	59.2	530	2	US-09-517-849-8	Sequence 8, Appl1	473	29	59.2	3418	1	US-08-603-753D-4	Sequence 4, Appl1	
401	29	59.2	530	2	US-09-517-849-8	Sequence 8, Appl1	474	29	59.2	3418	1	US-09-044-946-2	Sequence 2, Appl1	
402	29	59.2	530	2	US-09-976-740-8	Sequence 8, Appl1	475	29	59.2	3418	2	US-08-755-587-44	Sequence 44, Appl	
403	29	59.2	546	2	US-09-616-289-44	Sequence 44, Appl	476	29	59.2	3418	2	US-09-044-908-2	Sequence 2, Appl1	
404	29	59.2	546	2	US-09-976-740-44	Sequence 44, Appl	477	29	59.2	3418	2	US-09-099-753-4	Sequence 4, Appl1	
405	29	59.2	557	2	US-08-979-608A-5	Sequence 5, Appl1	478	29	59.2	3418	2	US-08-986-106-4	Sequence 4, Appl1	
406	29	59.2	557	2	US-09-517-849-5	Sequence 5, Appl1	479	28	57.1	21	1	US-08-355-888A-15	Sequence 15, Appl	
407	29	59.2	557	2	US-09-616-289-5	Sequence 5, Appl1	480	28	57.1	21	1	US-08-693-697-15	Sequence 15, Appl	
408	29	59.2	557	2	US-09-976-740-5	Sequence 5, Appl1	481	28	57.1	21	1	US-08-693-697-34	Sequence 34, Appl	
409	29	59.2	571	2	US-09-973-180A-2	Sequence 2, Appl1	482	28	57.1	21	2	US-08-588-526-4	Sequence 4, Appl1	
410	29	59.2	571	2	US-09-973-180A-3	Sequence 3, Appl1	483	28	57.1	21	2	US-08-693-696-15	Sequence 15, Appl	
411	29	59.2	571	2	US-09-973-180A-4	Sequence 4, Appl1	484	28	57.1	21	2	US-09-357-914-15	Sequence 15, Appl	
412	29	59.2	571	2	US-09-949-016-6878	Sequence 6878, Ap	485	28	57.1	37	2	US-09-084-303B-283	Sequence 283, App	
413	29	59.2	572	1	US-08-160-861-3	Sequence 3, Appl1	486	28	57.1	50	2	US-09-149-476-425	Sequence 425, App	
414	29	59.2	589	2	US-09-538-092-1194	Sequence 1194, Ap	487	28	57.1	581	70	2	US-09-149-476-581	Sequence 581, App
415	29	59.2	605	2	US-09-949-016-8003	Sequence 8003, Ap	488	28	57.1	70	2	US-09-513-999C-5668	Sequence 5668, Ap	
416	29	59.2	638	2	US-10-104-047-2495	Sequence 2495, Ap	489	28	57.1	74	2	US-09-122-135-3	Sequence 3, Appl1	
417	29	59.2	640	2	US-09-687-538B-2	Sequence 2, Appl1	490	28	57.1	76	2	US-09-513-999C-4685	Sequence 4685, Ap	
418	29	59.2	640	2	US-10-509-437-2	Sequence 2, Appl1	491	28	57.1	78	2	US-09-949-016-9824	Sequence 9824, Ap	
419	29	59.2	673	1	US-08-282-141-3	Sequence 3, Appl1	492	28	57.1	80	2	US-09-084-303B-15	Sequence 15, Appl	
420	29	59.2	673	1	US-08-435-434-1	Sequence 1, Appl1	493	28	57.1	80	2	US-09-513-999C-5667	Sequence 5667, Ap	
421	29	59.2	673	1	US-08-435-436-1	Sequence 1, Appl1	494	28	57.1	82	2	US-09-198-4452A-1103	Sequence 1103, Ap	
422	29	59.2	673	1	US-08-438-863-1	Sequence 1, Appl1	495	28	57.1	88	2	US-09-270-767-58234	Sequence 58234, A	
423	29	59.2	673	1	US-08-438-864-1	Sequence 1, Appl1	496	28	57.1	88	2	US-09-270-767-60354	Sequence 60354, A	
424	29	59.2	673	2	US-08-438-862-1	Sequence 1, Appl1	497	28	57.1	89	2	US-09-540-236-2037	Sequence 2037, Ap	
425	29	59.2	673	2	US-08-628-747-1	Sequence 1, Appl1	498	28	57.1	104	2	US-09-543-681A-8181	Sequence 8181, Ap	
426	29	59.2	673	2	US-08-402-253-1	Sequence 1, Appl1	499	28	57.1	105	2	US-09-471-276-1565	Sequence 1565, Ap	
427	29	59.2	673	2	US-08-443-866B-1	Sequence 1, Appl1	500	28	57.1	115	2	US-09-270-767-57881	Sequence 57881, A	
428	29	59.2	678	1	US-08-282-141-2	Sequence 2, Appl1	501	28	57.1	121	2	US-10-104-047-1983	Sequence 1983, Ap	
429	29	59.2	678	1	US-08-435-434-2	Sequence 2, Appl1	502	28	57.1	122	2	US-09-949-016-8591	Sequence 8591, Ap	
430	29	59.2	678	1	US-08-435-436-2	Sequence 2, Appl1	503	28	57.1	125	2	US-09-248-796A-22965	Sequence 22965, A	
431	29	59.2	678	1	US-08-438-863-2	Sequence 2, Appl1	504	28	57.1	137	2	US-09-109-100-18	Sequence 19, Appl	
432	29	59.2	678	1	US-08-438-864-2	Sequence 2, Appl1	505	28	57.1	137	2	US-09-270-767-44806	Sequence 44806, A	
433	29	59.2	678	2	US-08-628-747-2	Sequence 2, Appl1	506	28	57.1	141	2	US-09-732-210-376	Sequence 376, App	
434	29	59.2	678	2	US-08-402-253-2	Sequence 2, Appl1	507	28	57.1	141	2	US-09-732-210-377	Sequence 377, App	
435	29	59.2	678	2	US-08-443-866B-2	Sequence 2, Appl1	508	28	57.1	144	2	US-09-252-991A-33241	Sequence 33241, A	
436	29	59.2	680	1	US-08-542-363-4	Sequence 4, Appl1	509	28	57.1	149	2	US-09-270-767-33296	Sequence 33296, A	
437	29	59.2	680	1	US-09-100-089-4	Sequence 4, Appl1	510	28	57.1	149	2	US-09-270-767-46513	Sequence 46513, A	
438	29	59.2	680	2	US-09-670-827-4	Sequence 4, Appl1	511	28	57.1	153	2	US-08-865-449-3	Sequence 3, Appl1	
439	29	59.2	680	2	US-09-827-949-4	Sequence 4, Appl1	512	28	57.1	153	2	US-08-898-649-3	Sequence 3, Appl1	
440	29	59.2	680	2	US-09-827-949-4	Sequence 4, Appl1	513	28	57.1	155	2	US-09-134-006C-5186	Sequence 5186, Ap	
441	29	59.2	728	2	US-09-816-744-18	Sequence 18, Appl	514	28	57.1	155	2	US-09-228-986-97	Sequence 97, Appl	
442	29	59.2	728	2	US-10-104-047-3399	Sequence 3399, Ap	515	28	57.1	155	2	US-10-101-466A-97	Sequence 97, Appl	
443	29	59.2	744	1	US-08-179-481-2	Sequence 2, Appl1	516	28	57.1	156	2	US-10-101-466A-785	Sequence 785, Appl	
444	29	59.2	744	1	US-09-328-352-7920	Sequence 7920, Ap	517	28	57.1	156	2	US-09-248-796A-18174	Sequence 18174, A	
445	29	59.2	744	2	US-09-999-833A-459	Sequence 459, App	518	28	57.1	162	2	US-09-270-767-41276	Sequence 41276, A	
446	29	59.2	747	2	US-10-020-445A-459	Sequence 459, App	519	28	57.1	163	2	US-09-270-767-55492	Sequence 55492, A	
447	29	59.2	751	2	US-08-936-043-3	Sequence 3, Appl1	520	28	57.1	163	2	US-09-710-279-2410	Sequence 2410, Ap	
448	29	59.2	781	1	US-10-104-047-2979	Sequence 2979, Ap	521	28	57.1	169	2	US-09-270-767-42909	Sequence 42909, A	
449	29	59.2	782	2	US-09-902-540-10007	Sequence 10007, A	522	28	57.1	176	2	US-09-489-035A-11482	Sequence 11482, A	
450	29	59.2	782	2	US-09-949-016-6015	Sequence 6015, Ap	523	28	57.1	178	2	US-09-902-540-11596	Sequence 11596, A	
451	29	59.2	792	2	US-09-248-796A-16677	Sequence 16677, A	524	28	57.1	180	2	US-09-461-688-4	Sequence 4, Appl1	
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738	28	57.1	878	2	US-09-561-138-8	Sequence 8, Appli	811	27	55.1	9	2	US-09-311-784A-347	Sequence 347, App	
739	28	57.1	879	2	US-09-141-212-6	Sequence 6, Appli	812	27	55.1	9	2	US-09-601-729-148	Sequence 148, App	
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754	28	57.1	882	2	US-09-756-247-39	Sequence 39, Appl	827	27	55.1	72	2	US-09-100-089-17	Sequence 17, Appl	
755	28	57.1	912	2	US-09-756-247-29	Sequence 29, Appl	828	27	55.1	72	2	US-09-670-827-17	Sequence 17, Appl	
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841	27	55.1	90	2	US-09-270-767-34449	Sequence 34449, A	914	27	55.1	160	1	US-07-847-010-20	Sequence 20, Appl
842	27	55.1	90	2	US-09-270-767-49666	Sequence 49666, A	915	27	55.1	161	2	US-09-252-991A-22676	Sequence 22676, A
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848	27	55.1	98	2	US-09-311-731A-357	Sequence 357, App	921	27	55.1	176	2	PCT-US91-02714-27	Sequence 27, Appl
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894	27	55.1	133	1	US-08-234-812-2	Sequence 2, Appl1	967	27	55.1	243	2	US-09-270-767-46744	Sequence 46744, A
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977 27 55.1 275 6 5252477-3 Patent No. 5252477  
978 27 55.1 276 2 US-09-949-016-9720 Sequence 9720, Ap  
979 27 55.1 277 1 US-08-469-537A-57 Sequence 57, Appl  
980 27 55.1 278 2 US-09-328-352-5738 Sequence 5738, Ap  
981 27 55.1 280 1 US-08-816-155B-43 Sequence 43, Appl  
982 27 55.1 280 2 US-09-079-587-43 Sequence 43, Appl  
983 27 55.1 281 2 US-08-624-447-18 Sequence 18, Appl  
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985 27 55.1 287 2 US-10-104-047-2891 Sequence 2891, Ap  
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987 27 55.1 290 2 US-09-664-526-28 Sequence 28, Appl  
988 27 55.1 292 2 US-09-134-000C-3776 Sequence 3776, Ap  
989 27 55.1 294 2 US-09-131-028A-9 Sequence 9, Appl  
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993 27 55.1 301 2 US-09-949-016-6524 Sequence 6524, Ap  
994 27 55.1 305 2 US-09-949-016-9608 Sequence 9608, Ap  
995 27 55.1 313 2 US-09-489-039A-12108 Sequence 12108, A  
996 27 55.1 314 1 US-08-589-446-6 Sequence 6, Appl  
997 27 55.1 314 1 US-08-444-882-6 Sequence 6, Appl  
998 27 55.1 314 1 US-08-389-459A-6 Sequence 6, Appl  
999 27 55.1 314 2 US-08-987-867A-6 Sequence 6, Appl  
1000 27 55.1 314 2 US-10-104-047-2972 Sequence 2972, Ap

## ALIGNMENTS

RESULT 1  
US-08-466-285-2  
Sequence 2, Application US/08466285  
GENERAL INFORMATION:  
PATENT NO. 5753233  
APPLICANT: BLEUL, Conrad  
APPLICANT: GISEMANN, Lutz  
TITLE OF INVENTION: Seroreactive Epitopes On Proteins Of  
TITLE OF INVENTION: Human Papillomavirus (HPV) 18  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
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CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20005-3315  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/466,285  
FILING DATE: 06-JUN-1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/164,768  
FILING DATE: 10-DEC-1993  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/947,992  
FILING DATE: 21-SEP-1992  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/696,953  
FILING DATE: 08-MAY-1991  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: P 40 15 044.5  
FILING DATE: 10-MAY-1990  
CLASSIFICATION: 424

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TELEPHONE: (202) 408-4000  
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INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 32 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-466-285-2  
Query Match 100.0%; Score 49; DB 1; Length 32;  
Best Local Similarity 100.0%; Pred. No. 0.025;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 KLPDCTEL 9  
|||  
Db 8 KLPDCTEL 16

RESULT 2  
US-08-164-768-2  
Sequence 2, Application US/08164768  
PATENT NO. 6322794  
GENERAL INFORMATION:  
APPLICANT: BLEUL, Conrad  
APPLICANT: GISEMANN, Lutz  
TITLE OF INVENTION: SEROREACTIVE EPITOPES ON PROTEINS OF  
TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS (HPV) 18  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
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STREET: 1300 I Street, N.W.  
CITY: Washington  
STATE: DC  
COUNTRY: USA  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/164,768  
FILING DATE: 10-DEC-1993  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
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REGISTRATION NUMBER: 33,694  
REFERENCE/DOCKET NUMBER: 05552.1075-02000  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 408-4000  
TELEFAX: (202) 408-4400  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 32 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-164-768-2

Query Match 100.0%; Score 49; DB 2; Length 32;  
Best Local Similarity 100.0%; Pred. No. 0.025;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 8 KLPLDCTEL 16

RESULT 3  
US-08-247-904B-10  
Sequence 10, Application US/08247904B  
Patent No. 5981699  
GENERAL INFORMATION:  
APPLICANT: Rolfe, Mark  
APPLICANT: Eckstein, Jens W.  
TITLE OF INVENTION: Human Ubiquitin Conjugating Enzyme  
NUMBER OF SEQUENCES: 17  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Foley, Hoag & Eliot  
STREET: One Post Office Square  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: ASCII(text)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/247,904B  
FILING DATE: 23-MAY-1994  
CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: Vincent, Matthew P.  
REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: MIV-029.01  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 832-1000  
TELEFAX: (617) 832-7000  
INFORMATION FOR SEQ ID NO: 10:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 158 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-247-904B-10

Query Match 100.0%; Score 49; DB 1; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.13;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KLPLDCTEL 9  
Db 13 KLPLDCTEL 21

RESULT 4  
US-08-767-942A-19  
Sequence 19, Application US/08767942A  
Patent No. 6068962  
GENERAL INFORMATION:  
APPLICANT: Rolfe, Mark  
APPLICANT: Chiu, M. Isabel  
APPLICANT: Berlin, Vivian  
APPLICANT: Damagnez, Veronique  
APPLICANT: Draetta, Giulio  
APPLICANT: Guillaume, Cottarel  
TITLE OF INVENTION: UBIQUITIN CONJUGATING ENZYMES  
NUMBER OF SEQUENCES: 45  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FOLEY, HOAG & ELIOT LLP  
STREET: One Post Office Square  
CITY: Boston  
STATE: MA

COUNTRY: USA  
ZIP: 02109-2170  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/767,942A  
FILING DATE: 17-DEC-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Vincent, Matthew P.  
REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: MIV-029.04  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-832-7000  
TELEFAX: 617-832-1000  
INFORMATION FOR SEQ ID NO: 19:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 158 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-767-942A-19

Query Match 100.0%; Score 49; DB 2; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.13;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KLPLDCTEL 9  
Db 13 KLPLDCTEL 21

RESULT 5  
US-08-117-083-14  
Sequence 14, Application US/08117083  
Patent No. 5719054  
GENERAL INFORMATION:  
APPLICANT: Boursnell, Michael E.  
APPLICANT: Ingills, Stephen C.  
APPLICANT: Munro, Alan J.  
TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human  
NUMBER OF SEQUENCES: 70  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Walter H. Dregger  
STREET: 4 Embarcadero Center, Suite 3400  
CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94111  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/117,083  
FILING DATE: 10-SEP-1993  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Dregger, Walter H.  
REGISTRATION NUMBER: 24,190  
REFERENCE/DOCKET NUMBER: A-58783  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-781-1989  
TELEFAX: 415-398-3249  
TELEX: 910 277299  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 271 amino acids  
TYPE: amino acid

STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
NAME/KEY: Protein  
LOCATION: 1..271  
OTHER INFORMATION: /note= "Xaa refers to stop codon in  
OTHER INFORMATION: the open reading frame."  
US-08-117-083-14

Query Match 100.0%; Score 49; DB 1; Length 271;  
Best Local Similarity 100.0%; Pred. No. 0.24;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
Db 14 KLPDLCTEL 22

RESULT 6  
US-09-485-885-21  
Sequence 21, Application US/09485885  
Patent No. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabazon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Fernandez  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 971953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 21  
LENGTH: 278  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-485-885-21

Query Match 100.0%; Score 49; DB 2; Length 278;  
Best Local Similarity 100.0%; Pred. No. 0.25;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
Db 124 KLPDLCTEL 132

RESULT 7  
US-09-485-885-23  
Sequence 23, Application US/09485885  
Patent No. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabazon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Fernandez  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 971953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23

SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 23  
LENGTH: 383  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-485-885-23

Query Match 100.0%; Score 49; DB 2; Length 383;  
Best Local Similarity 100.0%; Pred. No. 0.34;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
Db 124 KLPDLCTEL 132

RESULT 8  
US-08-787-547-101  
Sequence 101, Application US/08787547  
Patent No. 5783567  
GENERAL INFORMATION:  
APPLICANT: Hedley, Mary Lynne  
APPLICANT: Curley, Joanne M.  
APPLICANT: Langer, Robert S.  
TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY  
TITLE OF INVENTION: OF NUCLEIC ACID  
NUMBER OF SEQUENCES: 107  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/787,547  
FILING DATE: 22-JAN-1997  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Fraser, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/003001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-542-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 101:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 9 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-787-547-101

Query Match 87.8%; Score 43; DB 1; Length 9;  
Best Local Similarity 88.9%; Pred. No. 4.6e+05;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
Db 1 KLPDLCTEL 9

RESULT 9  
US-09-601-729-274



```
; Sequence 274, Application US/09601729
; Patent No. 6683052
; GENERAL INFORMATION:
; APPLICANT: THIAM, KADER
; APPLICANT: AURIAULT, CLAUDE
; APPLICANT: GRAS-MASSÉ, HELENE
; APPLICANT: LOING, ESTELLE
; APPLICANT: VERMAERDE, CLAUDE
; APPLICANT: GUILLET, JEAN GERARD
; TITLE OF INVENTION: LIPOPEPTIDES CONTAINING AN INTERFERON FRAGMENT AND USES
; TITLE OF INVENTION: THEREOF IN PHARMACEUTICAL COMPOSITIONS
; FILE REFERENCE: USB-97-AU-IN
; CURRENT APPLICATION NUMBER: US/09/601,729
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: PCT/FR99/00259
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 98 01439
; NUMBER OF SEQ ID NOS: 281
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 274
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: peptide
; US-09-601-729-274

Query Match      87.8%; Score 43; DB 2; Length 9;
Best Local Similarity 88.9%; Pred. No. 4.6e+05;
Matches      8; Conservative      0; Mismatches      1; Indels      0; Gaps      0;

QY      1 KLPDLCTEL 9
DB      1 KLPDLCTEL 9

RESULT 10
US-08-934-915-159
; Sequence 159, Application US/08934915
; Patent No. 5932412
; GENERAL INFORMATION:
; APPLICANT: DILLNER, JOAKIM
; APPLICANT: DILLNER, LENA
; APPLICANT: CHENG, HMEI-MING
; TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
; TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
; TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
; TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
; TITLE OF INVENTION: DIAGNOSTIC PURPOSES
; NUMBER OF SEQUENCES: 193
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MASON & ASSOCIATES, P.A.
; STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
; CITY: CLEARWATER
; STATE: FLORIDA
; COUNTRY: U.S.A.
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Windows 3.0
; SOFTWARE: Microsoft Word 6.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/934,915
; FILING DATE: 22-SEP-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/949,836
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: LOUISE A. FOUTCH
; REGISTRATION NUMBER: 37,133
```

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; REFERENCE/DOCKET NUMBER: 1946.6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 813-538-3800
; TELEFAX: 813-538-3820
; TELEX:
; INFORMATION FOR SEQ ID NO: 159:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-934-915-159

Query Match      87.8%; Score 43; DB 1; Length 20;
Best Local Similarity 88.9%; Pred. No. 0.19;
Matches      8; Conservative      0; Mismatches      1; Indels      0; Gaps      0;

QY      1 KLPDLCTEL 9
DB      2 KLPDLCTEL 10

RESULT 11
US-08-363-586-4
; Sequence 4, Application US/08363586
; Patent No. 5629161
; GENERAL INFORMATION:
; APPLICANT: Mueller, Martin
; APPLICANT: Giesmann, Lutz
; TITLE OF INVENTION: Use of HPV-16 E6 and E7-Gene Derived
; TITLE OF INVENTION: Peptides for the Diagnostic Purpose
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/363,586
; FILING DATE: 23-DEC-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/909,296
; FILING DATE: 09-JUL-1992
; APPLICATION NUMBER: EP 91111720.8
; FILING DATE: 13-JUL-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Wadler, Linda A.
; REGISTRATION NUMBER: 33,218
; REFERENCE/DOCKET NUMBER: 02481-1195-00000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4400
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-363-586-4

Query Match      87.8%; Score 43; DB 1; Length 30;
Best Local Similarity 88.9%; Pred. No. 0.3;
Matches      8; Conservative      0; Mismatches      1; Indels      0; Gaps      0;
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Qy 1 KLPDLCTEL 9  
|||  
Db 11 KLPOLCTEL 19

## RESULT 12

US-09-980-523A-4  
; Sequence 4, Application US/09980523A  
; Patent No. 6783763  
; GENERAL INFORMATION:  
; APPLICANT: CHOPPIN, JEANNINE  
; APPLICANT: BOURGAULT VILLADA, ISABELLE  
; APPLICANT: GUILLET, JEAN-GERARD  
; APPLICANT: CONNAN, FRANCINE  
; APPLICANT: FERRIES, ESTELLE  
; TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 AND E7  
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE  
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION  
; FILE REFERENCE: WO/01 AO INS  
; CURRENT APPLICATION NUMBER: US/09/980,523A  
; CURRENT FILING DATE: 2002-04-29  
; PRIOR APPLICATION NUMBER: PCT/FR00/01513  
; PRIOR FILING DATE: 2000-05-31  
; PRIOR APPLICATION NUMBER: FR 99/07012  
; PRIOR FILING DATE: 1999-06-03  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 4  
; LENGTH: 30  
; TYPE: PRT  
; ORGANISM: Human Papillomavirus  
US-09-980-523A-4

Query Match 87.8%; Score 43; DB 2; Length 30;  
Best Local Similarity 88.9%; Pred. No. 0.3;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
|||  
Db 4 KLPOLCTEL 12

## RESULT 13

US-09-701-080C-18  
; Sequence 18, Application US/09701080C  
; Patent No. 6864054  
; GENERAL INFORMATION:  
; APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY  
; TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 F  
; FILE REFERENCE: N73477C GCM  
; CURRENT APPLICATION NUMBER: US/09/701,080C  
; CURRENT FILING DATE: 2001-02-27  
; PRIOR APPLICATION NUMBER: GB 9811303.8  
; PRIOR FILING DATE: 1998-05-26  
; PRIOR APPLICATION NUMBER: GB 9900157.0  
; PRIOR FILING DATE: 1999-01-05  
; NUMBER OF SEQ ID NOS: 36  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 18  
; LENGTH: 151  
; TYPE: PRT  
; ORGANISM: Human papillomavirus  
US-09-701-080C-18

Query Match 87.8%; Score 43; DB 2; Length 151;  
Best Local Similarity 88.9%; Pred. No. 1.6;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
|||  
Db 11 KLPOLCTEL 19

RESULT 14  
US-09-980-523A-2  
; Sequence 2, Application US/09980523A  
; Patent No. 6783763  
; GENERAL INFORMATION:  
; APPLICANT: CHOPPIN, JEANNINE  
; APPLICANT: BOURGAULT VILLADA, ISABELLE  
; APPLICANT: GUILLET, JEAN-GERARD  
; APPLICANT: CONNAN, FRANCINE  
; APPLICANT: FERRIES, ESTELLE  
; TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 AND E7  
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE  
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION  
; FILE REFERENCE: WO/01 AO INS  
; CURRENT APPLICATION NUMBER: US/09/980,523A  
; CURRENT FILING DATE: 2002-04-29  
; PRIOR APPLICATION NUMBER: PCT/FR00/01513  
; PRIOR FILING DATE: 2000-05-31  
; PRIOR APPLICATION NUMBER: FR 99/07012  
; PRIOR FILING DATE: 1999-06-03  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 158  
; TYPE: PRT  
; ORGANISM: Human Papillomavirus  
US-09-980-523A-2

Query Match 87.8%; Score 43; DB 2; Length 158;  
Best Local Similarity 88.9%; Pred. No. 1.7;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
|||  
Db 18 KLPOLCTEL 26

RESULT 15  
US-08-316-239B-3  
; Sequence 3, Application US/08316239B  
; Patent No. 5679509  
; GENERAL INFORMATION:  
; APPLICANT: Wheeler, Colette M.  
; APPLICANT: Parmenter, Cheryl A.  
; TITLE OF INVENTION: Methods and a Diagnostic Aid for  
; TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an  
; TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSER: Jagtiani & Associates  
; STREET: 6126 Rocky Way Court  
; CITY: Centerville  
; STATE: VA  
; COUNTRY: USA  
; ZIP: 20120-3400  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/316,239B  
; FILING DATE: 30-SEP-1994  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jagtiani, Ajay A.  
; REGISTRATION NUMBER: 35,205  
; REFERENCE/DOCKET NUMBER: UNME-0001  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (703) 817-9453  
; TELEFAX: (703) 803-9387

INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 162 amino acids  
TYPE: amino acid  
STRANDEDNESS: not relevant  
TOPOLOGY: not relevant  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
US-08-316-239B-3

Query Match 87.8%; Score 43; DB 1; Length 162;  
Best Local Similarity 88.9%; Pred. No. 1.8;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
Db 18 KLPOLCTEL 26

## RESULT 16

US-08-316-239B-4  
Sequence 4, Application US/083162398  
Patent No. 5679509  
GENERAL INFORMATION:  
APPLICANT: Wheeler, Cosette M.  
APPLICANT: Parmenter, Cheryl A.  
TITLE OF INVENTION: Methods and a Diagnostic Aid for  
TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an  
TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and  
TITLE OF INVENTION: Cervical Cancer  
NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Jagtiani & Associates  
STREET: 6126 Rocky Way Court  
CITY: Centreville  
STATE: VA  
COUNTRY: USA  
ZIP: 20120-3400  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/316,2398  
FILING DATE: 30-SEP-1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Jagtiani, Ajay A.  
REGISTRATION NUMBER: 35,205  
REFERENCE/DOCKET NUMBER: UNME-0001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (703) 817-9453  
TELEFAX: (703) 803-9387  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 162 amino acids  
TYPE: amino acid  
STRANDEDNESS: not relevant  
TOPOLOGY: not relevant  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
US-08-316-239B-4

Query Match 87.8%; Score 43; DB 1; Length 162;  
Best Local Similarity 88.9%; Pred. No. 1.8;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
Db 18 KLPOLCTEL 26

## RESULT 17

US-08-860-165-14  
Sequence 14, Application US/08860165A  
Patent No. 6004557  
GENERAL INFORMATION:  
APPLICANT: EDWARDS, Stirling John  
APPLICANT: COX, John Cooper  
APPLICANT: WEBB, Elizabeth Ann  
APPLICANT: FRAZER, Ian  
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS  
FILE REFERENCE: 17227/130  
CURRENT APPLICATION NUMBER: US/08/860,165A  
CURRENT FILING DATE: 1997-09-22  
EARLIER APPLICATION NUMBER: PCT/AU95/00868  
EARLIER FILING DATE: 1995-12-20  
EARLIER APPLICATION NUMBER: AU PNO157  
EARLIER FILING DATE: 1994-12-20  
NUMBER OF SEQ ID NOS: 15  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 14  
LENGTH: 172  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion  
US-08-860-165-14

Query Match 87.8%; Score 43; DB 2; Length 172;  
Best Local Similarity 88.9%; Pred. No. 1.9;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
Db 87 KLPOLCTEL 95

## RESULT 18

US-09-359-382-14  
Sequence 14, Application US/09359382  
Patent No. 6306397  
GENERAL INFORMATION:  
APPLICANT: EDWARDS, Stirling John  
APPLICANT: COX, John Cooper  
APPLICANT: WEBB, Elizabeth Ann  
APPLICANT: FRAZER, Ian  
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS  
FILE REFERENCE: 017227/0148  
CURRENT APPLICATION NUMBER: US/09/359,382  
CURRENT FILING DATE: 1999-07-23  
EARLIER APPLICATION NUMBER: US 08/860,165  
EARLIER FILING DATE: 1997-09-22  
EARLIER APPLICATION NUMBER: PCT/AU95/00868  
EARLIER FILING DATE: 1995-12-20  
EARLIER APPLICATION NUMBER: AU PNO157/94  
EARLIER FILING DATE: 1994-12-20  
NUMBER OF SEQ ID NOS: 27  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 14  
LENGTH: 172  
TYPE: PRT  
ORGANISM: Human papillomavirus type 16  
US-09-359-382-14

Query Match 87.8%; Score 43; DB 2; Length 172;  
Best Local Similarity 88.9%; Pred. No. 1.9;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
Db 87 KLPOLCTEL 95

## RESULT 19

US-08-117-083-10  
; Sequence 10, Application US/08117083  
; Patent No. 5719054  
; GENERAL INFORMATION:  
; APPLICANT: Bournselli, Michael E.  
; APPLICANT: Inglier, Stephen C.  
; APPLICANT: Munro, Alan J.  
; TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human  
; TITLE OF INVENTION: Papilloma Virus Proteins  
; NUMBER OF SEQUENCES: 70  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Walter H. Dregger  
; STREET: 4 Embarcadero Center, Suite 3400  
; CITY: San Francisco  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94111  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/117,083  
; FILING DATE: 10-SEP-1993  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Dregger, Walter H.  
; REGISTRATION NUMBER: 24,190  
; REFERENCE/DOCKET NUMBER: A-58783  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-781-1989  
; TELEFAX: 415-398-3249  
; TELEX: 910 277299  
; INFORMATION FOR SEQ ID NO: 10:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 182 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; FEATURE:  
; NAME/KEY: Protein  
; LOCATION: 1..182  
; OTHER INFORMATION: /note= "Xaa refers to stop codon in  
; OTHER INFORMATION: the open reading frame."  
US-08-117-083-10

Query Match 87.8%; Score 43; DB 1; Length 182;  
Best Local Similarity 88.9%; Pred. No. 2;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
||| |||||  
Db 19 KLPDLCTEL 27

RESULT 20  
US-09-462-993-1  
; Sequence 1, Application US/09462993  
; Patent No. 6884786  
; GENERAL INFORMATION:  
; APPLICANT: KIENY, Marie-Paule  
; APPLICANT: BALLOUL, Jean-Marc  
; APPLICANT: BIZOUARNE, Nadine  
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC  
; TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION  
; FILE REFERENCE: 017753-122  
; CURRENT APPLICATION NUMBER: US/09/462,993  
; CURRENT FILING DATE: 2000-04-17  
; PRIOR APPLICATION NUMBER: PCT/FR98/01576  
; PRIOR FILING DATE: 1998-07-17  
; PRIOR APPLICATION NUMBER: FR 97/09152

PRIOR FILING DATE: 1997-07-18  
; NUMBER OF SEQ ID NOS: 23  
; SOFTWARE: Patentin Ver. 2.2  
; SEQ ID NO 1  
; LENGTH: 243  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Derived from  
; OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein  
; OTHER INFORMATION: fused F protein signals, clone E6\*TMF.  
US-09-462-993-1

Query Match 87.8%; Score 43; DB 2; Length 243;  
Best Local Similarity 88.9%; Pred. No. 2.7;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
||| |||||  
Db 46 KLPDLCTEL 54

RESULT 21  
US-08-860-165-10  
; Sequence 10, Application US/08860165A  
; Patent No. 6004557  
; GENERAL INFORMATION:  
; APPLICANT: EDWARDS, Stirling John  
; APPLICANT: COX, John Cooper  
; APPLICANT: WEBB, Elizabeth Ann  
; APPLICANT: FRAZER, Ian  
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS  
; FILE REFERENCE: 17227/130  
; CURRENT APPLICATION NUMBER: US/08/860,165A  
; CURRENT FILING DATE: 1997-09-22  
; EARLIER APPLICATION NUMBER: PCT/AU95/00868  
; EARLIER FILING DATE: 1995-12-20  
; EARLIER APPLICATION NUMBER: AU PNO157  
; EARLIER FILING DATE: 1994-12-20  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 10  
; LENGTH: 266  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion  
US-08-860-165-10

Query Match 87.8%; Score 43; DB 2; Length 266;  
Best Local Similarity 88.9%; Pred. No. 3;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
||| |||||  
Db 18 KLPDLCTEL 26

RESULT 22  
US-09-359-382-10  
; Sequence 10, Application US/09359382  
; Patent No. 6306397  
; GENERAL INFORMATION:  
; APPLICANT: EDWARDS, Stirling John  
; APPLICANT: COX, John Cooper  
; APPLICANT: WEBB, Elizabeth Ann  
; APPLICANT: FRAZER, Ian  
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS  
; FILE REFERENCE: 017227/0148  
; CURRENT APPLICATION NUMBER: US/09/359,382  
; CURRENT FILING DATE: 1999-07-23  
; EARLIER APPLICATION NUMBER: US 08/860,165  
; EARLIER FILING DATE: 1997-09-22

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; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-10

Query Match      87.8%; Score 43; DB 2; Length 266;
Best Local Similarity 88.9%; Pred. No. 3;
Matches      8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLC TEL 9
Db      18 KLPOLC TEL 26

RESULT 23
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match      87.8%; Score 43; DB 2; Length 266;
Best Local Similarity 88.9%; Pred. No. 3;
Matches      8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLC TEL 9
Db      18 KLPOLC TEL 26

RESULT 24
US-09-485-885-4
; Sequence 4, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
; TYPE: PRT
```

```
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-4

Query Match      87.8%; Score 43; DB 2; Length 273;
Best Local Similarity 88.9%; Pred. No. 3.1;
Matches      8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLC TEL 9
Db      124 KLPOLC TEL 132

RESULT 25
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-10

Query Match      87.8%; Score 43; DB 2; Length 292;
Best Local Similarity 88.9%; Pred. No. 3.3;
Matches      8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLC TEL 9
Db      143 KLPOLC TEL 151
```

```
RESULT 26
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
```

ORGANISM: Homo sapien  
US-09-485-885-6

Query Match 87.8%; Score 43; DB 2; Length 371;  
Best Local Similarity 88.9%; Pred. No. 4.3;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
Db 124 KLPDLCTEL 132

RESULT 27  
US-09-485-885-14  
Sequence 14, Application US/09485885  
Patent No. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabezon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Bernande  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 14  
LENGTH: 390  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-485-885-14

Query Match 87.8%; Score 43; DB 2; Length 390;  
Best Local Similarity 88.9%; Pred. No. 4.5;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
Db 143 KLPDLCTEL 151

RESULT 28  
US-09-198-452A-1036  
Sequence 1036, Application US/09198452A  
Patent No. 6559294  
GENERAL INFORMATION:  
APPLICANT: Grifflais, R.  
TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments thereof and uses thereof, in particular for the diagnosis, prevention and treatment of infection  
FILE REFERENCE: 9710-003-999  
CURRENT APPLICATION NUMBER: US/09/198,452A  
CURRENT FILING DATE: 1998-11-24  
NUMBER OF SEQ ID NOS: 6849  
SEQ ID NO 1036  
LENGTH: 504  
TYPE: PRT  
ORGANISM: Chlamydia pneumoniae  
FEATURE:  
NAME/KEY: SITE  
LOCATION: 1...504  
OTHER INFORMATION: Xaa=unknown or other  
US-09-198-452A-1036

Query Match 81.6%; Score 40; DB 2; Length 504;  
Best Local Similarity 66.7%; Pred. No. 21;  
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
Db 206 KLPDLCTEL 214

RESULT 29  
US-09-438-185A-966  
Sequence 966, Application US/09438185A  
Patent No. 6822071  
GENERAL INFORMATION:  
APPLICANT: Stephens, Richard  
APPLICANT: Mitchell, Wayne  
APPLICANT: Kalman, Sue  
APPLICANT: Davis, Ronald  
APPLICANT: The Regents of the University of California  
TITLE OF INVENTION: Chlamydia Pneumoniae Genome Sequence  
FILE REFERENCE: 018941-000411US  
CURRENT APPLICATION NUMBER: US/09/438,185A  
CURRENT FILING DATE: 2002-03-13  
PRIOR APPLICATION NUMBER: US 60/108,279  
PRIOR FILING DATE: 1998-11-12  
PRIOR APPLICATION NUMBER: US 60/128,606  
PRIOR FILING DATE: 1998-04-08  
NUMBER OF SEQ ID NOS: 1074  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 966  
LENGTH: 504  
TYPE: PRT  
ORGANISM: Chlamydia pneumoniae  
FEATURE:  
OTHER INFORMATION: Cpn0964  
US-09-438-185A-966

Query Match 81.6%; Score 40; DB 2; Length 504;  
Best Local Similarity 66.7%; Pred. No. 21;  
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
Db 206 KLPDLCTEL 214

RESULT 30  
US-09-543-681A-7711  
Sequence 7711, Application US/09543681A  
Patent No. 6605709  
GENERAL INFORMATION:  
APPLICANT: GARY BRITON  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS  
FILE REFERENCE: 2709.1002-001  
CURRENT APPLICATION NUMBER: US/09/543,681A  
CURRENT FILING DATE: 2000-04-05  
PRIOR APPLICATION NUMBER: US 60/128,706  
PRIOR FILING DATE: 1999-04-09  
NUMBER OF SEQ ID NOS: 8344  
SEQ ID NO 7711  
LENGTH: 89  
TYPE: PRT  
ORGANISM: Proteus mirabilis  
US-09-543-681A-7711

Query Match 73.5%; Score 36; DB 2; Length 89;  
Best Local Similarity 100.0%; Pred. No. 18;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 PDLCTE 8  
Db 38 PDLCTE 43

RESULT 31

```

US-09-328-352-4646
; Sequence 4646, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; FILE REFERENCE: GTC99-039A
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 4646
; LENGTH: 108
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
US-09-328-352-4646

Query Match          73.5%; Score 36; DB 2; Length 108;
Best Local Similarity 100.0%; Pred. No. 23;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 PDLCTE 8
    |||||
Db 56 PDLCTE 61

RESULT 32
US-09-540-236-3305
; Sequence 3305, Application US/09540236
; Patent No. 6673910
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO MORAXELLA CATAR
; FILE REFERENCE: 2709.2005-001
; CURRENT APPLICATION NUMBER: US/09/540,236
; CURRENT FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 3840
; SEQ ID NO 3305
; LENGTH: 117
; TYPE: PRT
; ORGANISM: M.cattarrhalis
US-09-540-236-3305

Query Match          73.5%; Score 36; DB 2; Length 117;
Best Local Similarity 100.0%; Pred. No. 25;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 PDLCTE 8
    |||||
Db 69 PDLCTE 74

RESULT 33
US-09-489-039A-10689
; Sequence 10689, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 10689
; LENGTH: 410
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-10689

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Query Match          73.5%; Score 36; DB 2; Length 410;
Best Local Similarity 85.7%; Pred. No. 94;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 LPDLCTE 8
    |||||
Db 264 LPDLCTE 270

RESULT 34
US-09-270-767-38382
; Sequence 38382, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 38382
; LENGTH: 148
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-38382

Query Match          71.4%; Score 35; DB 2; Length 148;
Best Local Similarity 85.7%; Pred. No. 49;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KLDPDLCT 7
    |||||
Db 119 KLDPDLCT 125

RESULT 35
US-09-270-767-53599
; Sequence 53599, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 53599
; LENGTH: 148
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-53599

Query Match          71.4%; Score 35; DB 2; Length 148;
Best Local Similarity 85.7%; Pred. No. 49;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KLDPDLCT 7
    |||||
Db 119 KLDPDLCT 125

RESULT 36
US-09-673-395A-248
; Sequence 248, Application US/09673395A
; Patent No. 6620923
; GENERAL INFORMATION:
; APPLICANT: SPECHT, THOMAS
US-09-673-395A-248

```

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; APPLICANT: HINZMANN, BERND
; APPLICANT: SCHMITT, ARMIN
; APPLICANT: PILARSKY, CHRISTIAN
; APPLICANT: DAHL, EDGAR
; APPLICANT: ROSENTHAL, ANDRE
; TITLE OF INVENTION: HUMAN NUCLEIC ACID SEQUENCES FROM UTERUS TUMOR TISSUE
; FILE REFERENCE: ALBRE-12
; CURRENT APPLICATION NUMBER: US/09/673,395A
; CURRENT FILING DATE: 2000-10-17
; NUMBER OF SEQ ID NOS: 637
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 248
; LENGTH: 161
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-673-395A-248

Query Match      69.4%; Score 34; DB 2; Length 161;
Best Local Similarity 85.7%; Pred. No. 81;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCT 7
Db      54 KLPDLCT 60

RESULT 37
US-09-902-540-10941
; Sequence 10941, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 10941
; LENGTH: 199
; TYPE: PRT
; ORGANISM: Myxococcus xanthus
; US-09-902-540-10941

Query Match      69.4%; Score 34; DB 2; Length 199;
Best Local Similarity 85.7%; Pred. No. 1e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      3 PDLCTEL 9
Db      58 PDLCTEL 64

RESULT 38
US-09-198-452A-1041
; Sequence 1041, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Griffiths, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 1041
; LENGTH: 307
; TYPE: PRT
```

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; ORGANISM: Chlamydia pneumoniae
; US-09-198-452A-1041

Query Match      69.4%; Score 34; DB 2; Length 307;
Best Local Similarity 75.0%; Pred. No. 1.6e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 LPDLCTEL 9
Db      285 LPDLCTEL 292

RESULT 39
US-10-104-047-3428
; Sequence 3428, Application US/10104047
; Patent No. 6943241
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: NO. 6943241el full length cDNA
; FILE REFERENCE: H1-A0105
; CURRENT APPLICATION NUMBER: US/10/104,047
; CURRENT FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER:
; PRIOR FILING DATE:
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3428
; LENGTH: 326
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-104-047-3428

Query Match      69.4%; Score 34; DB 2; Length 326;
Best Local Similarity 77.8%; Pred. No. 1.7e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 KLPDLCTEL 9
Db      124 KLPDLCTEL 132

RESULT 40
US-08-481-968A-11
; Sequence 11, Application US/08481968A
; Patent No. 6300490
; GENERAL INFORMATION:
; APPLICANT: Huber, Brian
; APPLICANT: Richards, Cynthia
; TITLE OF INVENTION: Molecular Constructs Comprising a Carcinoembryonic Antigen (CEA)
; TITLE OF INVENTION: Transcriptional Regulatory Region
; FILE REFERENCE: PB1087US4
; CURRENT APPLICATION NUMBER: US/08/481,968A
; CURRENT FILING DATE: 1998-06-07
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 11
; LENGTH: 341
; TYPE: PRT
; ORGANISM: Varicella zoster
; US-08-481-968A-11

Query Match      69.4%; Score 34; DB 2; Length 341;
Best Local Similarity 75.0%; Pred. No. 1.8e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTE 8
Db      262 KLPDLCTE 269

RESULT 41
US-08-154-712B-11
; Sequence 11, Application US/08154712B
```



```
/ Patent No. 6337209
/ GENERAL INFORMATION:
/ APPLICANT: Huber, Brian
/ APPLICANT: Richards, Cynthia
/ TITLE OF INVENTION: Molecular Constructs Containing a Carcinoembryonic Antigen Regu
/ TITLE OF INVENTION: Sequence
/ FILE REFERENCE: PB1087US3
/ CURRENT APPLICATION NUMBER: US/08/154,712B
/ CURRENT FILING DATE: 1993-11-19
/ NUMBER OF SEQ ID NOS: 36
/ SOFTWARE: Patentin version 3.0
/ SEQ ID NO 11
/ LENGTH: 341
/ TYPE: PRT
/ ORGANISM: Varicella zoster
US-08-154-712B-11

Query Match      69.4%; Score 34; DB 2; Length 341;
Best Local Similarity 75.0%; Pred. No. 1.8e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTE 8
Db      262 KLPDLGCE 269

RESULT 42
US-09-947-925A-11
/ Sequence 11, Application US/09947925A
/ Patent No. 6699690
/ GENERAL INFORMATION:
/ APPLICANT: Huber, Brian
/ APPLICANT: Richards, Cynthia
/ TITLE OF INVENTION: Molecular Constructs Containing a Carcinoembryonic
/ TITLE OF INVENTION: Sequence
/ FILE REFERENCE: PB1087US3
/ CURRENT APPLICATION NUMBER: US/09/947,925A
/ CURRENT FILING DATE: 2001-09-06
/ PRIOR APPLICATION NUMBER: US/08/154,712
/ PRIOR FILING DATE: 1993-11-19
/ NUMBER OF SEQ ID NOS: 36
/ SOFTWARE: Patentin version 3.0
/ SEQ ID NO 11
/ LENGTH: 341
/ TYPE: PRT
/ ORGANISM: Varicella zoster
US-09-947-925A-11

Query Match      69.4%; Score 34; DB 2; Length 341;
Best Local Similarity 75.0%; Pred. No. 1.8e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTE 8
Db      262 KLPDLGCE 269

RESULT 43
US-09-686-583B-12
/ Sequence 12, Application US/09686583B
/ Patent No. 6576750
/ GENERAL INFORMATION:
/ APPLICANT: Heeka Corporation
/ APPLICANT: Gaines, Patrick J.
/ APPLICANT: Wisniewski, Nancy
/ TITLE OF INVENTION: FLEA PERTROPHIN NUCLEIC ACID MOLECULES, PROTEINS AND USES THEREO
/ FILE REFERENCE: FC-6-C2
/ CURRENT APPLICATION NUMBER: US/09/686,583B
/ CURRENT FILING DATE: 2000-10-11
/ PRIOR APPLICATION NUMBER: 09/543,668
/ PRIOR FILING DATE: 2000-04-07
/ PRIOR APPLICATION NUMBER: 60/128,704
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/ PRIOR FILING DATE: 1999-04-09
/ NUMBER OF SEQ ID NOS: 68
/ SOFTWARE: Patentin version 3.1
/ SEQ ID NO 12
/ LENGTH: 453
/ TYPE: PRT
/ ORGANISM: Ctenocephalides felis
US-09-686-583B-12

Query Match      69.4%; Score 34; DB 2; Length 453;
Best Local Similarity 55.6%; Pred. No. 2.4e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTEL 9
Db      399 ELPLDIDDEV 407

RESULT 44
US-09-585-174-6
/ Sequence 6, Application US/09585174
/ Patent No. 6586229
/ GENERAL INFORMATION:
/ APPLICANT: Ben-Bassat, Arie
/ APPLICANT: Cattermole, Monica
/ APPLICANT: Gatenby, Anthony A.
/ APPLICANT: Gibson, Katherine J.
/ APPLICANT: Ramos-Gonzalez, Isabel
/ APPLICANT: Ramos, Juan
/ APPLICANT: Sarielani, Sima
/ TITLE OF INVENTION: Method for the Production of p-Hydroxybenzoate in Species of
/ TITLE OF INVENTION: Pseudomonas and Agrobacterium
/ FILE REFERENCE: BC1018 US NA
/ CURRENT APPLICATION NUMBER: US/09/585,174
/ CURRENT FILING DATE: 2000-06-01
/ NUMBER OF SEQ ID NOS: 112
/ SOFTWARE: Microsoft Office 97
/ SEQ ID NO 6
/ LENGTH: 530
/ TYPE: PRT
/ ORGANISM: Pseudomonas mendocina KR-1
US-09-585-174-6

Query Match      69.4%; Score 34; DB 2; Length 530;
Best Local Similarity 85.7%; Pred. No. 2.9e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      3 PDLCTEL 9
Db      122 PDLCTAL 128

RESULT 45
US-09-438-185A-970
/ Sequence 970, Application US/09438185A
/ Patent No. 6822071
/ GENERAL INFORMATION:
/ APPLICANT: Stephens, Richard
/ APPLICANT: Mitchell, Wayne
/ APPLICANT: Kaiman, Sue
/ APPLICANT: Davis, Ronald
/ APPLICANT: The Regents of the University of California
/ TITLE OF INVENTION: Chlamydia Pneumoniae Genome Sequence
/ FILE REFERENCE: 018941-000411US
/ CURRENT APPLICATION NUMBER: US/09/438,185A
/ CURRENT FILING DATE: 2002-03-13
/ PRIOR APPLICATION NUMBER: US 60/108,279
/ PRIOR FILING DATE: 1998-11-12
/ PRIOR APPLICATION NUMBER: US 60/128,606
/ PRIOR FILING DATE: 1999-04-08
/ NUMBER OF SEQ ID NOS: 1074
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 970
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/ LENGTH: 611  
/ TYPE: PRT  
/ ORGANISM: Chlamydia pneumoniae  
/ FEATURE:  
/ OTHER INFORMATION: CPN0968  
US-09-438-185A-970

Query Match 69.4%; Score 34; DB 2; Length 611;  
Best Local Similarity 75.0%; Pred. No. 3.3e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LPDLCTEL 9  
DB 444 LPDLCTEL 451

RESULT 46  
US-09-513-999C-7763  
Sequence 7763, Application US/09513999C  
Patent No. 6783961  
GENERAL INFORMATION:  
APPLICANT: Dumas Milne Edwards, J.B.  
APPLICANT: Ducleart, A.  
APPLICANT: Giordano, J.Y.  
TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.  
Patent No. 6783961  
FILE REFERENCE: 59.US2.REG  
CURRENT APPLICATION NUMBER: US/09/513,999C  
CURRENT FILING DATE: 2000-02-24  
PRIOR APPLICATION NUMBER: US 60/122,487  
PRIOR FILING DATE: 1999-02-26  
NUMBER OF SEQ ID NOS: 36681  
SOFTWARE: Patent.pm  
SEQ ID NO 7763  
LENGTH: 53  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: UNSURE  
LOCATION: 28  
OTHER INFORMATION: Xaa=Cys or Gly  
FEATURE:  
NAME/KEY: UNSURE  
LOCATION: 30  
OTHER INFORMATION: Xaa= \* or Glu  
FEATURE:  
NAME/KEY: UNSURE  
LOCATION: 48  
OTHER INFORMATION: Xaa=Cys or Gly or Arg or Ser  
US-09-513-999C-7763

Query Match 67.3%; Score 33; DB 2; Length 53;  
Best Local Similarity 83.3%; Pred. No. 38;  
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 LPDLCTEL 7  
DB 19 LPDLCTEL 24

RESULT 47  
US-09-270-767-62327  
Sequence 62327, Application US/09270767  
Patent No. 6703491  
GENERAL INFORMATION:  
APPLICANT: Homburger et al.  
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
FILE REFERENCE: File Reference: 7326-094  
CURRENT APPLICATION NUMBER: US/09/270,767  
CURRENT FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 62517  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 62327

/ LENGTH: 73  
/ TYPE: PRT  
/ ORGANISM: Drosophila melanogaster  
/ FEATURE:  
/ OTHER INFORMATION: Xaa means any amino acid  
US-09-270-767-62327

Query Match 67.3%; Score 33; DB 2; Length 73;  
Best Local Similarity 85.7%; Pred. No. 54;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 PDLCTEL 9  
DB 61 PDLCTEL 67

RESULT 48  
US-08-609-049A-17  
Sequence 17, Application US/08609049A  
Patent No. 5948664  
GENERAL INFORMATION:  
APPLICANT: Williams, Lewis T.  
APPLICANT: Molz, Lisa  
APPLICANT: Chen, Yen-Wen  
TITLE OF INVENTION: NO. 5948664e1 PI 3-Kinase Polypeptides  
NUMBER OF SEQUENCES: 32  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, 8th Floor  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/609,049A  
FILING DATE: 29-FEB-1996  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Dow, Karen B.  
REGISTRATION NUMBER: 29,684  
REFERENCE/DOCKET NUMBER: 2307K-063700US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-326-2400  
TELEFAX: 415-326-2422  
INFORMATION FOR SEQ ID NO: 17:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 138 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-609-049A-17

Query Match 67.3%; Score 33; DB 1; Length 138;  
Best Local Similarity 66.7%; Pred. No. 1.1e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
DB 10 KLPDLCTEL 18

RESULT 49  
US-09-170-996-17  
Sequence 17, Application US/09170996  
Patent No. 6291220  
GENERAL INFORMATION:  
APPLICANT: Williams, Lewis T.

APPLICANT: Molz, Lisa  
APPLICANT: Chen, Yen-Wen  
TITLE OF INVENTION: No. 6291220e1 PI 3-Kinase Polypeptides  
NUMBER OF SEQUENCES: 32  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, 8th Floor  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/170,996  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/609,049  
FILING DATE: 29-FEB-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Dow, Karen B.  
REGISTRATION NUMBER: 29,684  
REFERENCE/DOCKET NUMBER: 2307K-063700US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-326-2400  
TELEFAX: 415-326-2422  
INFORMATION FOR SEQ ID NO: 17:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 138 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-09-170-996-17

Query Match 67.3%; Score 33; DB 2; Length 138;  
Best Local Similarity 66.7%; Pred. No. 1.1e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;  
QY 1 KLPDLCTEL 9  
Db 10 KLGDICTSL 18

RESULT 50  
US-09-252-991A-31445  
Sequence 31445, Application US/09252991A  
Patent No. 6551795  
GENERAL INFORMATION:  
APPLICANT: Marc J. Rubenfield et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
FILE REFERENCE: 107196.116  
CURRENT APPLICATION NUMBER: US/09/252,991A  
CURRENT FILING DATE: 1999-02-18  
PRIOR APPLICATION NUMBER: US 60/074,788  
PRIOR FILING DATE: 1998-02-18  
PRIOR APPLICATION NUMBER: US 60/094,190  
PRIOR FILING DATE: 1998-07-27  
NUMBER OF SEQ ID NOS: 33142  
SEQ ID NO 31445  
LENGTH: 163  
TYPE: PRT  
ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-31445

Query Match 67.3%; Score 33; DB 2; Length 163;  
Best Local Similarity 71.4%; Pred. No. 1.3e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 KLPDLCT 7  
Db 36 RLPDLCT 42

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OM protein - protein search, using sw model

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Title: US-08-170-344-21

Perfect score: 49

Sequence: 1 KLPDLCTEL 9

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Searched: 1867569 seqs, 417829326 residues

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Minimum DB seq length: 0

Maximum DB seq length: 200000000

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Maximum Match 100%

Listing first 1000 summaries

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- 5: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep:\*
- 6: /cgn2\_6/ptodata/1/pubpaa/US11\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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4	49	100.0	12	6	US-11-021-949-60
5	49	100.0	25	6	US-11-021-949-2
6	49	100.0	25	6	US-11-021-949-57
7	49	100.0	42	5	US-10-751-845-152
8	49	100.0	119	5	US-10-751-845-159
9	49	100.0	158	5	US-10-800-023-27
10	49	100.0	158	6	US-11-021-949-28
11	49	100.0	158	6	US-11-021-949-29
12	49	100.0	172	4	US-10-472-724-6
13	49	100.0	236	5	US-10-751-845-157
14	49	100.0	237	5	US-10-751-845-158
15	49	100.0	261	5	US-10-751-845-160
16	49	100.0	278	4	US-10-000-903-21
17	49	100.0	278	5	US-10-899-771-21
18	49	100.0	383	4	US-10-000-903-23
19	49	100.0	383	5	US-10-899-771-23
20	43	87.8	9	3	US-09-909-460-101
21	43	87.8	9	3	US-09-872-836-101
22	43	87.8	9	4	US-10-133-210-278
23	43	87.8	9	4	US-10-777-053-546
24	43	87.8	9	4	US-10-837-217-546
25	43	87.8	9	4	US-10-758-970-101
26	43	87.8	9	5	US-10-484-063-1
27	43	87.8	9	5	US-10-751-845-55

28	43	87.8	12	6	US-11-021-949-7	Sequence 7, Appl1
29	43	87.8	15	5	US-10-476-570-20	Sequence 20, Appl1
30	43	87.8	20	5	US-10-751-845-64	Sequence 64, Appl1
31	43	87.8	21	4	US-10-476-570-8	Sequence 8, Appl1
32	43	87.8	25	6	US-11-021-949-1	Sequence 1, Appl1
33	43	87.8	30	4	US-10-476-570-53	Sequence 53, Appl1
34	43	87.8	30	5	US-10-858-384-4	Sequence 4, Appl1
35	43	87.8	32	4	US-10-476-570-9	Sequence 9, Appl1
36	43	87.8	33	4	US-10-476-570-19	Sequence 19, Appl1
37	43	87.8	117	5	US-10-751-845-126	Sequence 126, App
38	43	87.8	151	4	US-10-177-390-6	Sequence 6, Appl1
39	43	87.8	151	5	US-10-484-063-20	Sequence 20, Appl1
40	43	87.8	151	5	US-10-484-063-27	Sequence 27, Appl1
41	43	87.8	158	5	US-10-858-384-2	Sequence 2, Appl1
42	43	87.8	158	5	US-10-367-057-16	Sequence 16, Appl1
43	43	87.8	158	6	US-11-021-949-13	Sequence 13, Appl1
44	43	87.8	158	6	US-11-021-949-30	Sequence 30, Appl1
45	43	87.8	158	6	US-11-021-949-361	Sequence 361, App
46	43	87.8	171	4	US-10-472-724-2	Sequence 2, Appl1
47	43	87.8	213	6	US-11-072-288-1	Sequence 1, Appl1
48	43	87.8	263	3	US-09-367-309A-1	Sequence 1, Appl1
49	43	87.8	273	4	US-10-000-903-4	Sequence 4, Appl1
50	43	87.8	273	5	US-10-899-771-4	Sequence 4, Appl1
51	43	87.8	292	4	US-10-000-903-10	Sequence 10, Appl1
52	43	87.8	292	5	US-10-899-771-10	Sequence 10, Appl1
53	43	87.8	371	4	US-10-000-903-6	Sequence 6, Appl1
54	43	87.8	371	5	US-10-899-771-6	Sequence 6, Appl1
55	43	87.8	371	5	US-10-000-903-14	Sequence 14, Appl1
56	43	87.8	390	5	US-10-899-771-14	Sequence 14, Appl1
57	43	87.8	536	4	US-10-367-095-10	Sequence 10, Appl1
58	43	87.8	536	4	US-10-368-046-10	Sequence 10, Appl1
59	43	87.8	536	4	US-10-367-367-10	Sequence 10, Appl1
60	43	87.8	536	5	US-10-918-337-10	Sequence 10, Appl1
61	40	81.6	486	4	US-10-312-773-277	Sequence 277, App
62	40	81.6	504	4	US-10-289-762-1036	Sequence 1036, Ap
63	38	77.6	59	4	US-10-424-599-280453	Sequence 280453,
64	38	77.6	137	4	US-10-424-599-232141	Sequence 232141,
65	38	77.6	518	6	US-11-097-143-16113	Sequence 16113, A
66	37	75.5	162	6	US-10-021-949-31	Sequence 31, Appl1
67	37	75.5	249	4	US-10-425-114-65862	Sequence 65862, A
68	37	75.5	250	4	US-10-425-114-66539	Sequence 66539, A
69	37	75.5	414	5	US-10-450-763-40271	Sequence 40271, A
70	37	75.5	604	4	US-10-425-114-68052	Sequence 68052, A
71	37	75.5	662	4	US-10-425-114-62163	Sequence 62163, A
72	37	75.5	662	4	US-10-425-115-231324	Sequence 231324,
73	36	73.5	79	4	US-10-437-963-134716	Sequence 134716,
74	36	73.5	73	4	US-10-282-122A-69084	Sequence 69084, A
75	36	73.5	79	4	US-10-282-122A-44514	Sequence 44514, A
76	36	73.5	84	4	US-10-282-122A-77133	Sequence 77133, A
77	36	73.5	327	4	US-10-425-114-41076	Sequence 41076, A
78	35	71.4	133	4	US-10-767-701-40558	Sequence 40558, A
79	35	71.4	138	4	US-10-437-963-187838	Sequence 187838,
80	35	71.4	149	4	US-10-425-115-109967	Sequence 309967,
81	35	71.4	151	4	US-10-114-893-125	Sequence 125, App
82	35	71.4	228	3	US-09-833-245-492	Sequence 492, App
83	35	71.4	296	4	US-10-767-701-32538	Sequence 32538, A
84	35	71.4	406	4	US-10-437-963-167732	Sequence 167732,
85	35	71.4	725	3	US-09-764-868-755	Sequence 755, App
86	35	71.4	728	3	US-09-764-875-666	Sequence 666, App
87	35	71.4	1019	4	US-10-276-774-2298	Sequence 2298, Ap
88	35	70.4	150	4	US-10-424-599-282190	Sequence 282190,
89	34.5	70.4	161	5	US-10-732-923-491	Sequence 3491, Ap
90	34.5	70.4	15	4	US-10-476-570-21	Sequence 21, Appl1
91	34	69.4	68	4	US-10-425-115-277993	Sequence 277993,
92	34	69.4	75	4	US-10-424-599-217722	Sequence 217722,
93	34	69.4	81	3	US-09-864-761-40772	Sequence 40772, A
94	34	69.4	87	4	US-10-425-115-290093	Sequence 290093,
95	34	69.4	99	4	US-10-425-115-209694	Sequence 209694,
96	34	69.4	111	4	US-10-425-115-224771	Sequence 224771,
97	34	69.4	137	4	US-10-767-701-40381	Sequence 40381, A
98	34	69.4	137	4	US-10-425-115-194881	Sequence 194881,
99	34	69.4	137	4	US-10-425-115-224774	Sequence 224774,
100	34	69.4	137	4	US-10-425-115-224774	Sequence 224774,

101	34	69.4	187	4	US-10-425-115-214957	Sequence 214957, A	174	33	67.3	2630	4	US-10-437-963-172374	Sequence 172374, A
102	34	69.4	192	4	US-10-767-701-56725	Sequence 56725, A	175	32	65.3	47	4	US-10-425-115-193559	Sequence 193559, A
103	34	69.4	307	4	US-10-289-762-1041	Sequence 1041, Ap	176	32	65.3	77	4	US-10-424-559-167523	Sequence 167523, A
104	34	69.4	326	4	US-10-104-047-3428	Sequence 3428, Ap	177	32	65.3	81	4	US-10-282-122A-54293	Sequence 54293, A
105	34	69.4	341	3	US-09-947-925A-11	Sequence 11, Appl	178	32	65.3	87	4	US-10-425-115-134854	Sequence 134854, A
106	34	69.4	430	4	US-10-424-599-232139	Sequence 232139, A	179	32	65.3	100	4	US-10-424-599-112165	Sequence 172165, A
107	34	69.4	438	4	US-10-425-114-49035	Sequence 49035, A	180	32	65.3	100	4	US-10-425-115-274837	Sequence 274837, A
108	34	69.4	447	4	US-10-424-599-276447	Sequence 276447, A	181	32	65.3	117	3	US-09-864-761-43183	Sequence 43183, A
109	34	69.4	449	5	US-10-450-763-53463	Sequence 53463, A	182	32	65.3	118	4	US-10-425-115-187006	Sequence 187006, A
110	34	69.4	453	3	US-09-991-936-1883	Sequence 1883, Ap	183	32	65.3	128	4	US-10-094-749-1744	Sequence 1744, Ap
111	34	69.4	453	4	US-10-401-324-12	Sequence 12, Appl	184	32	65.3	128	4	US-10-425-115-336013	Sequence 336013, A
112	34	69.4	453	5	US-10-978-245-1883	Sequence 1883, Ap	185	32	65.3	129	4	US-10-424-599-247098	Sequence 247098, A
113	34	69.4	500	4	US-10-437-863-183975	Sequence 183975, A	186	32	65.3	143	5	US-10-450-765-33772	Sequence 33772, A
114	34	69.4	530	3	US-09-997-664-6	Sequence 6, Appl1	187	32	65.3	148	4	US-10-424-599-138837	Sequence 138837, A
115	34	69.4	530	4	US-10-464-952-6	Sequence 6, Appl1	188	32	65.3	148	6	US-11-021-949-14	Sequence 359, Appl
116	34	69.4	578	4	US-10-425-115-190982	Sequence 190982, A	189	32	65.3	149	6	US-10-425-115-339025	Sequence 339025, A
117	34	69.4	609	4	US-10-282-122A-54933	Sequence 54933, A	190	32	65.3	166	4	US-10-425-115-339025	Sequence 68250, A
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122	34	69.4	1123	5	US-10-732-923-22590	Sequence 22590, A	195	32	65.3	236	3	US-09-801-944B-163	Sequence 163, App
123	34	69.4	1213	5	US-10-732-923-22589	Sequence 22589, A	196	32	65.3	239	5	US-10-820-155-14	Sequence 13, Appl
124	34	69.4	1648	4	US-10-087-192-393	Sequence 393, App	197	32	65.3	239	5	US-10-820-155-23	Sequence 30, Appl
125	34	69.4	1941	4	US-10-188-186-96	Sequence 96, Appl	198	32	65.3	239	5	US-10-820-155-30	Sequence 39, Appl
126	34	69.4	31	4	US-10-029-386-31702	Sequence 31702, A	199	32	65.3	239	5	US-10-820-155-39	Sequence 85, Appl
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128	33	67.3	49	4	US-10-425-115-27814	Sequence 27814, A	201	32	65.3	239	5	US-10-820-155-94	Sequence 94, Appl
129	33	67.3	61	4	US-10-425-115-199620	Sequence 199620, A	202	32	65.3	239	5	US-10-820-155-97	Sequence 97, Appl
130	33	67.3	107	4	US-10-424-599-150226	Sequence 150226, A	203	32	65.3	250	6	US-11-097-149-15376	Sequence 5376, Ap
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133	33	67.3	158	4	US-10-425-115-50625	Sequence 50625, A	206	32	65.3	304	4	US-10-432-803-2	Sequence 5770, Ap
134	33	67.3	160	6	US-11-021-949-32	Sequence 32, Appl	207	32	65.3	314	4	US-10-755-889-96	Sequence 56, Appl
135	33	67.3	164	4	US-10-767-701-52328	Sequence 52328, A	208	32	65.3	325	4	US-10-369-493-57770	Sequence 22542, A
136	33	67.3	177	4	US-10-767-701-31746	Sequence 31746, A	209	32	65.3	325	4	US-10-369-493-22542	Sequence 1818, Ap
137	33	67.3	194	4	US-10-425-115-304865	Sequence 304865, A	210	32	65.3	330	4	US-10-087-199-1818	Sequence 94, Appl
138	33	67.3	197	4	US-10-425-115-362023	Sequence 362023, A	211	32	65.3	331	3	US-09-919-497-94	Sequence 156, Ap
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140	33	67.3	243	4	US-10-424-599-236712	Sequence 236712, A	213	32	65.3	331	4	US-10-638-225-18	Sequence 18, Appl
141	33	67.3	266	4	US-10-424-599-225174	Sequence 225174, A	214	32	65.3	331	4	US-10-638-225-20	Sequence 20, Appl
142	33	67.3	308	4	US-10-062-548-60	Sequence 60, Appl	215	32	65.3	335	4	US-10-638-225-22	Sequence 22, Appl
143	33	67.3	308	5	US-10-918-446-60	Sequence 60, Appl	216	32	65.3	339	4	US-10-087-199-1815	Sequence 1815, Ap
144	33	67.3	308	6	US-11-002-755-60	Sequence 60, Appl	217	32	65.3	340	4	US-10-389-566-1564	Sequence 1564, Ap
145	33	67.3	308	6	US-11-002-755-60	Sequence 60, Appl	218	32	65.3	340	5	US-10-450-763-34797	Sequence 34797, A
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152	33	67.3	419	4	US-10-092-900A-346	Sequence 346, App	225	32	65.3	372	4	US-10-425-115-53891	Sequence 53891, A
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156	33	67.3	447	4	US-10-282-122A-48894	Sequence 48894, A	229	32	65.3	397	3	US-09-792-630-19	Sequence 19, Appl
157	33	67.3	450	4	US-10-425-115-327141	Sequence 327141, A	230	32	65.3	397	3	US-09-953-351-19	Sequence 19, Appl
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161	33	67.3	627	4	US-10-309-437-6	Sequence 6, Appl1	234	32	65.3	397	4	US-10-023-208-19	Sequence 19, Appl
162	33	67.3	627	5	US-10-849-106-6	Sequence 6, Appl1	235	32	65.3	397	4	US-10-022-390-54	Sequence 54, Appl
163	33	67.3	638	4	US-10-309-437-4	Sequence 4, Appl1	236	32	65.3	397	4	US-10-022-390-58	Sequence 58, Appl
164	33	67.3	638	5	US-10-849-106-4	Sequence 4, Appl1	237	32	65.3	397	4	US-10-022-390-62	Sequence 62, Appl
165	33	67.3	748	5	US-10-491-472-37	Sequence 37, Appl	238	32	65.3	397	4	US-10-022-390-66	Sequence 66, Appl
166	33	67.3	750	4	US-10-369-493-3095	Sequence 3095, Ap	239	32	65.3	397	4	US-10-022-390-70	Sequence 70, Appl
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168	33	67.3	801	5	US-10-732-923-22107	Sequence 22107, A	241	32	65.3	397	4	US-10-022-390-78	Sequence 78, Appl
169	33	67.3	868	6	US-11-097-143-19110	Sequence 19110, A	242	32	65.3	397	4	US-10-022-390-82	Sequence 82, Appl
170	33	67.3	938	4	US-10-205-823-64	Sequence 64, Appl	243	32	65.3	397	4	US-10-022-390-86	Sequence 86, Appl
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172	33	67.3	1220	4	US-10-437-963-151021	Sequence 151021, A	245	32	65.3	397	4	US-10-022-390-94	Sequence 94, Appl
173	33	67.3	1331	5	US-10-450-763-58600	Sequence 58600, A	246	32	65.3	397	4	US-10-022-390-98	Sequence 98, Appl



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415	32	65.3	397	4	US-10-022-249-290	Sequence 290, App	488	32	65.3	621	3	US-09-792-630-3	Sequence 3, App1
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417	32	65.3	397	4	US-10-022-249-294	Sequence 294, App	490	32	65.3	621	4	US-10-080-376-3	Sequence 3, App1
418	32	65.3	397	4	US-10-022-249-302	Sequence 302, App	491	32	65.3	621	4	US-10-082-671-9	Sequence 9, App1
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430	32	65.3	397	4	US-10-022-249-358	Sequence 358, App	503	32	65.3	621	4	US-10-022-390-19	Sequence 19, App1
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435	32	65.3	397	4	US-10-022-249-380	Sequence 380, App	508	32	65.3	621	4	US-10-022-390-29	Sequence 29, App1
436	32	65.3	397	4	US-10-022-249-384	Sequence 384, App	509	32	65.3	621	4	US-10-022-390-31	Sequence 31, App1
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694	32	65.3	621	4	US-10-022-249-117	Sequence 117, App	767	32	65.3	621	4	US-10-022-249-407	Sequence 407, App
695	32	65.3	621	4	US-10-022-249-121	Sequence 121, App	768	32	65.3	621	4	US-10-022-249-411	Sequence 411, App
696	32	65.3	621	4	US-10-022-249-125	Sequence 125, App	769	32	65.3	621	4	US-10-022-249-415	Sequence 415, App
697	32	65.3	621	4	US-10-022-249-129	Sequence 129, App	770	32	65.3	621	4	US-10-022-249-419	Sequence 419, App
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699	32	65.3	621	4	US-10-022-249-137	Sequence 137, App	772	32	65.3	621	4	US-10-022-249-425	Sequence 425, App
700	32	65.3	621	4	US-10-022-249-141	Sequence 141, App	773	32	65.3	621	4	US-10-022-249-427	Sequence 427, App
701	32	65.3	621	4	US-10-022-249-145	Sequence 145, App	774	32	65.3	621	4	US-10-022-249-431	Sequence 431, App
702	32	65.3	621	4	US-10-022-249-149	Sequence 149, App	775	32	65.3	621	4	US-10-022-249-435	Sequence 435, App
703	32	65.3	621	4	US-10-022-249-153	Sequence 153, App	776	32	65.3	621	4	US-10-022-249-439	Sequence 439, App
704	32	65.3	621	4	US-10-022-249-157	Sequence 157, App	777	32	65.3	621	4	US-10-022-249-443	Sequence 443, App
705	32	65.3	621	4	US-10-022-249-161	Sequence 161, App	778	32	65.3	621	4	US-10-022-249-447	Sequence 447, App
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## ALIGNMENTS

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RESULT 1
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; Sequence 1, Application US/10472661
; Publication No. US20040106551A1
; GENERAL INFORMATION:
; APPLICANT: Kniefl, Samir N.
; APPLICANT: Berzofsky, Jay A.
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS IMMUNOREACTIVE
; TITLE OF INVENTION: PEPTIDES
; FILE REFERENCE: 14014.040602
; CURRENT APPLICATION NUMBER: US/10/472,661
; CURRENT FILING DATE: 2003-09-22
; PRIOR APPLICATION NUMBER: PCT/US02/09261
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: 60/278,520
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: FaastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence; note =
; US-10-472-661-1

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Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 2
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; Sequence 124, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
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; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-06-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FaastSeq for Windows Version 4.0
; SEQ ID NO 124
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-124
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Db 1 KLPDICTEL 9
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; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SAMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FaastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 12
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-8

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Best Local Similarity 100.0%; Pred. No. 0.032;
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RESULT 4
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; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SAMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
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FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 60
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; ORGANISM: human papilloma virus (HPV)
US-11-021-949-60
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Db 4 KLPDLCTEL 12
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; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 25
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; ORGANISM: human papilloma virus (HPV)
US-11-021-949-2
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; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
```

```
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 57
; LENGTH: 25
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-57
```

```
Query Match          100.0%; Score 49; DB 6; Length 25;
Best Local Similarity 100.0%; Pred. No. 0.067;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 KLPDLCTEL 9
Db 10 KLPDLCTEL 18
```

```
RESULT 7
US-10-751-845-152
; Sequence 152, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 152
; LENGTH: 42
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-152
```

```
Query Match          100.0%; Score 49; DB 5; Length 42;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 KLPDLCTEL 9
Db 5 KLPDLCTEL 13
```

```
RESULT 8
US-10-751-845-159
; Sequence 159, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chiciz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 159
```

```
; LENGTH: 119
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-11-021-949-159
```

```
Query Match          100.0%; Score 49; DB 5; Length 119;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 KLPDLCTEL 9
Db 5 KLPDLCTEL 13
```

```
RESULT 9
US-10-800-023-27
; Sequence 27, Application US/10800023
; Publication No. US2004025868A1
; GENERAL INFORMATION:
; APPLICANT: Steinman, Ralph
; APPLICANT: Nussenzweig, Michel
; APPLICANT: Hawiger, Daniel
; APPLICANT: Bonifaz, Laura
; TITLE OF INVENTION: Enhanced Antigen Delivery and Modulation
; FILE REFERENCE: 600-1-081CONCIP1
; CURRENT APPLICATION NUMBER: US/10/800,023
; PRIOR FILING DATE: 2004-03-14
; PRIOR APPLICATION NUMBER: 09/925,284
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 09/586,704
; PRIOR FILING DATE: 2000-06-05
; PRIOR APPLICATION NUMBER: PCT/US96/01383
; PRIOR FILING DATE: 1996-01-31
; PRIOR APPLICATION NUMBER: 08/381,528
; PRIOR FILING DATE: 1995-01-31
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus E6 protein
US-10-800-023-27
```

```
Query Match          100.0%; Score 49; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.43;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 KLPDLCTEL 9
Db 13 KLPDLCTEL 21
```

```
RESULT 10
US-11-021-949-28
; Sequence 28, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/552,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
```

```
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 28
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-28
```

```
Query Match          100.0%; Score 49; DB 6; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.43;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 KLPDLCTEL 9
Db 13 KLPDLCTEL 21
```

```
RESULT 11
US-11-021-949-29
; Sequence 29, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; PRIOR FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-29
```

```
Query Match          100.0%; Score 49; DB 6; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.43;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 KLPDLCTEL 9
Db 13 KLPDLCTEL 21
```

```
RESULT 12
US-10-472-724-6
; Sequence 6, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Cid-Arregui, Angel
; APPLICANT: Zur Hausen, Harald
; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; PRIOR FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patencin version 3.2
; SEQ ID NO 6
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
```

US-10-472-724-6

Query Match

100.0%; Score 49; DB 4; Length 172;  
Best Local Similarity 100.0%; Pred. No. 0.47;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;Qy 1 KLPDLCTEL 9  
Db 19 KLPDLCTEL 27

RESULT 13

```
US-10-751-845-157
; Sequence 157, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 157
; LENGTH: 236
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-157
```

Query Match

100.0%; Score 49; DB 5; Length 236;  
Best Local Similarity 100.0%; Pred. No. 0.65;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;Qy 1 KLPDLCTEL 9  
Db 122 KLPDLCTEL 130

RESULT 14

```
US-10-751-845-158
; Sequence 158, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 158
; LENGTH: 237
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
```

; OTHER INFORMATION: Artificial fusion sequence  
US-10-751-845-158Query Match 100.0%; Score 49; DB 5; Length 237;  
Best Local Similarity 100.0%; Pred. No. 0.65;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;Qy 1 KLPDLCTEL 9  
Db 123 KLPDLCTEL 131

RESULT 15

```
US-10-751-845-160
; Sequence 160, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 160
; LENGTH: 261
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-160
```

Query Match

100.0%; Score 49; DB 5; Length 261;  
Best Local Similarity 100.0%; Pred. No. 0.72;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;Qy 1 KLPDLCTEL 9  
Db 147 KLPDLCTEL 155

RESULT 16

```
US-10-000-903-21
; Sequence 21, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Christaline
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 21
; LENGTH: 276
; TYPE: PRT
; ORGANISM: Homo sapien
```

US-10-000-903-21

Query Match 100.0%; Score 49; DB 4; Length 278;  
Best Local Similarity 100.0%; Pred. No. 0.77;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
|||||  
DB 124 KLPDLCTEL 132

RESULT 17

US-10-899-771-21  
; Sequence 21, Application US/10899771  
; Publication No. US20050031638A1  
; GENERAL INFORMATION:  
; APPLICANT: Dalemans, Wilfried L.J.  
; APPLICANT: Gerard, Catherine Marie Ghislaine  
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins  
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide  
; FILE REFERENCE: B45124  
; CURRENT APPLICATION NUMBER: US/10/899,771  
; CURRENT FILING DATE: 2004-07-27  
; PRIOR APPLICATION NUMBER: US/09/581,976  
; PRIOR FILING DATE: 2000-06-20  
; PRIOR APPLICATION NUMBER: PCT/EP98/08563  
; PRIOR FILING DATE: 1998-12-18  
; PRIOR APPLICATION NUMBER: GB 9727262.9  
; PRIOR FILING DATE: 1997-12-24  
; NUMBER OF SEQ ID NOS: 28  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 21  
; LENGTH: 278  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus  
; OTHER INFORMATION: Influenzae B and E6 from Human papilloma virus type  
; OTHER INFORMATION: 18)  
US-10-899-771-21

Query Match 100.0%; Score 49; DB 5; Length 278;  
Best Local Similarity 100.0%; Pred. No. 0.77;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
|||||  
DB 124 KLPDLCTEL 132

RESULT 18

US-10-000-903-23  
; Sequence 23, Application US/10000903  
; Publication No. US20020182221A1  
; GENERAL INFORMATION:  
; APPLICANT: Bruck, Claudine  
; APPLICANT: Cabazon Silva, Teresa  
; APPLICANT: Delisse, Anne-Marie Eva Fernande  
; APPLICANT: Gerard, Catherine Marie Ghislaine  
; APPLICANT: Lombardo-Benchelkh, Angela  
; TITLE OF INVENTION: Vaccine  
; FILE REFERENCE: B45107  
; CURRENT APPLICATION NUMBER: US/10/000,903  
; CURRENT FILING DATE: 2001-10-01  
; PRIOR APPLICATION NUMBER: PCT/EP98/05285  
; PRIOR FILING DATE: 1998-08-17  
; PRIOR APPLICATION NUMBER: GB 9717953.5  
; PRIOR FILING DATE: 1997-08-22  
; NUMBER OF SEQ ID NOS: 23  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 23  
; LENGTH: 383  
; TYPE: PRT

; ORGANISM: Homo sapien

Query Match 100.0%; Score 49; DB 4; Length 383;  
Best Local Similarity 100.0%; Pred. No. 1.1;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
|||||  
DB 124 KLPDLCTEL 132

RESULT 19

US-10-899-771-23  
; Sequence 23, Application US/10899771  
; Publication No. US20050031638A1  
; GENERAL INFORMATION:  
; APPLICANT: Dalemans, Wilfried L.J.  
; APPLICANT: Gerard, Catherine Marie Ghislaine  
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins  
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide  
; FILE REFERENCE: B45124  
; CURRENT APPLICATION NUMBER: US/10/899,771  
; CURRENT FILING DATE: 2004-07-27  
; PRIOR APPLICATION NUMBER: US/09/581,976  
; PRIOR FILING DATE: 2000-06-20  
; PRIOR APPLICATION NUMBER: PCT/EP98/08563  
; PRIOR FILING DATE: 1998-12-18  
; PRIOR APPLICATION NUMBER: GB 9727262.9  
; PRIOR FILING DATE: 1997-12-24  
; NUMBER OF SEQ ID NOS: 28  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 23  
; LENGTH: 383  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus  
; OTHER INFORMATION: Influenzae B and B67 fusion from Human papilloma  
; OTHER INFORMATION: virus type 18)  
US-10-899-771-23

Query Match 100.0%; Score 49; DB 5; Length 383;  
Best Local Similarity 100.0%; Pred. No. 1.1;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
|||||  
DB 124 KLPDLCTEL 132

RESULT 20

US-09-909-460-101  
; Sequence 101, Application US/09909460  
; Publication No. US20020182258A1  
; GENERAL INFORMATION:  
; APPLICANT: Lunsford, Lynn B.  
; APPLICANT: Putnam, David  
; APPLICANT: Hedley, Mary Lynn  
; TITLE OF INVENTION: MICROARTICLES FOR DELIVERY OF NUCLEIC  
; TITLE OF INVENTION: ACID  
; FILE REFERENCE: 08191/014001  
; CURRENT APPLICATION NUMBER: US/09/909,460  
; CURRENT FILING DATE: 2001-07-18  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/321,346  
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-05-27  
; NUMBER OF SEQ ID NOS: 114  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 101  
; LENGTH: 9  
; TYPE: PRT  
; ORGANISM: Hepatitis B virus  
US-09-909-460-101



Query Match 87.8%; Score 43; DB 3; Length 9;  
Best Local Similarity 88.9%; Pred. No. 1.7e+06;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
Db 1 KLPDLCTEL 9

RESULT 21  
US-09-872-836-101  
; Sequence 101, Application US/09872836  
; Publication No. US20040142475A1  
; GENERAL INFORMATION:  
; APPLICANT: Barman, Shikha P.  
; APPLICANT: McKeever, Una  
; APPLICANT: Hedley, Mary Lynne  
; TITLE OF INVENTION: DELIVERY SYSTEMS FOR BIOACTIVE AGENTS  
; FILE REFERENCE: 08191-018001  
; CURRENT APPLICATION NUMBER: US/09/872, 836  
; CURRENT FILING DATE: 2001-06-01  
; PRIOR APPLICATION NUMBER: US 60/208, 830  
; PRIOR FILING DATE: 2000-06-02  
; NUMBER OF SEQ ID NOS: 120  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 101  
; LENGTH: 9  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-872-836-101

Query Match 87.8%; Score 43; DB 3; Length 9;  
Best Local Similarity 88.9%; Pred. No. 1.7e+06;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
Db 1 KLPDLCTEL 9

RESULT 22  
US-10-133-210-278  
; Sequence 278, Application US/10133210  
; Publication No. US20030103964A1  
; GENERAL INFORMATION:  
; APPLICANT: Delisi, Charles  
; APPLICANT: Berzofsky, Jay  
; APPLICANT: Gulukota, Kamalakara  
; APPLICANT: Vaccaro, Dennis  
; APPLICANT: Wang, Zhiping  
; APPLICANT: Zhang, Chao  
; TITLE OF INVENTION: METHODS FOR DESIGNING MOLECULAR CONJUGATES AND  
; TITLE OF INVENTION: COMPOSITIONS THEREOF  
; FILE REFERENCE: BU-035AX  
; CURRENT APPLICATION NUMBER: US/10/133, 210  
; CURRENT FILING DATE: 2002-04-26  
; NUMBER OF SEQ ID NOS: 281  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 278  
; LENGTH: 9  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-10-133-210-278

Query Match 87.8%; Score 43; DB 4; Length 9;  
Best Local Similarity 88.9%; Pred. No. 1.7e+06;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
Db 1 KLPDLCTEL 9

Db 1 KLPDLCTEL 9

RESULT 23  
US-10-777-053-546  
; Sequence 546, Application US/10777053  
; Publication No. US20040132088A1  
; GENERAL INFORMATION:  
; APPLICANT: Simard, John J. L.  
; APPLICANT: Diamond, David C.  
; APPLICANT: Qiu, Zhiyong  
; APPLICANT: Lei, Xiang-Dong  
; TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF  
; TITLE OF INVENTION: TARGET-ASSOCIATED ANTIGENS AND METHODS FOR THEIR DESIGN  
; FILE REFERENCE: MANK.022C1  
; CURRENT APPLICATION NUMBER: US/10/777, 053  
; CURRENT FILING DATE: 2004-02-10  
; PRIOR APPLICATION NUMBER: 10/292, 413  
; PRIOR FILING DATE: 2002-11-07  
; PRIOR APPLICATION NUMBER: 60/336, 968  
; PRIOR FILING DATE: 2001-11-07  
; NUMBER OF SEQ ID NOS: 979  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 546  
; LENGTH: 9  
; TYPE: PRT  
; ORGANISM: Human Papillomavirus  
US-10-777-053-546

Query Match 87.8%; Score 43; DB 4; Length 9;  
Best Local Similarity 88.9%; Pred. No. 1.7e+06;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
Db 1 KLPDLCTEL 9

RESULT 24  
US-10-837-217-546  
; Sequence 546, Application US/10837217  
; Publication No. US20040203051A1  
; GENERAL INFORMATION:  
; APPLICANT: Simard, John J. L.  
; APPLICANT: Diamond, David C.  
; APPLICANT: Qiu, Zhiyong  
; APPLICANT: Lei, Xiang-Dong  
; TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF  
; TITLE OF INVENTION: TARGET-ASSOCIATED ANTIGENS AND METHODS FOR THEIR DESIGN  
; FILE REFERENCE: MANK.022C2  
; CURRENT APPLICATION NUMBER: US/10/837, 217  
; CURRENT FILING DATE: 2004-04-30  
; PRIOR APPLICATION NUMBER: 10/292, 413  
; PRIOR FILING DATE: 2002-11-07  
; PRIOR APPLICATION NUMBER: 60/336, 968  
; PRIOR FILING DATE: 2001-11-07  
; NUMBER OF SEQ ID NOS: 979  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 546  
; LENGTH: 9  
; TYPE: PRT  
; ORGANISM: Human Papillomavirus  
US-10-837-217-546

Query Match 87.8%; Score 43; DB 4; Length 9;  
Best Local Similarity 88.9%; Pred. No. 1.7e+06;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
Db 1 KLPDLCTEL 9

## RESULT 25

```
US-10-758-970-101
; Sequence 101, Application US/10758970
; Publication No. US20050037086A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Heu, Yung-Yueh
; APPLICANT: Tyo, Michael
; TITLE OF INVENTION: CONTINUOUS-FLOW METHOD FOR PREPARING MICROPARTICLES
; FILE REFERENCE: 08191-012001
; CURRENT APPLICATION NUMBER: US/10/758,970
; PRIOR FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: US/09/715,708A
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: US 60/166,516
; PRIOR FILING DATE: 1999-11-19
; NUMBER OF SEQ ID NOS: 109
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 101
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-758-970-101
```

```
Query Match      87.8%; Score 43; DB 5; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.7e+06;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

## QY

```
1 KLPDICTEL 9
||| |||||
Db 1 KLPOLCTEL 9
```

## RESULT 26

```
US-10-484-063-1
; Sequence 1, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILTERMO
; APPLICANT: POLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-1
```

```
Query Match      87.8%; Score 43; DB 5; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.7e+06;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

## QY

```
1 KLPDICTEL 9
||| |||||
Db 1 KLPOLCTEL 9
```

## RESULT 27

```
US-10-751-845-55
; Sequence 55, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
```

```
; APPLICANT: Urban, Robert G.
```

```
; APPLICANT: Chicx, Roman W.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; PRIOR FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 55
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-55
```

```
Query Match      87.8%; Score 43; DB 5; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.7e+06;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

## QY

```
1 KLPDICTEL 9
||| |||||
Db 1 KLPOLCTEL 9
```

## RESULT 28

```
US-11-021-949-7
; Sequence 7, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LV, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BEIMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 12
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-7
```

```
Query Match      87.8%; Score 43; DB 6; Length 12;
Best Local Similarity 88.9%; Pred. No. 0.42;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

## QY

```
1 KLPDICTEL 9
||| |||||
Db 4 KLPOLCTEL 12
```

## RESULT 29

```
US-10-476-570-20
; Sequence 20, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVEBLE-MORATILLE, Sandra
```

```

; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 17-31
US-10-476-570-20
```

```

Query Match      87.8%; Score 43; DB 4; Length 15;
Best Local Similarity 88.9%; Pred. No. 0.52;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 KLPDLCTEL 9
    ||| |||
Db 2 KLPDLCTEL 10
```

```

RESULT 30
US-10-751-845-64
; Sequence 64, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 64
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-64
```

```

Query Match      87.8%; Score 43; DB 5; Length 20;
Best Local Similarity 88.9%; Pred. No. 0.7;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 KLPDLCTEL 9
    ||| |||
Db 12 KLPDLCTEL 20
```

```

RESULT 31
US-10-476-570-8
; Sequence 8, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIER, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
```

```

; APPLICANT: POUVELLE-MORATILLE, Sandra
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 21
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 14-34
US-10-476-570-8
```

```

Query Match      87.8%; Score 43; DB 4; Length 21;
Best Local Similarity 88.9%; Pred. No. 0.73;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 KLPDLCTEL 9
    ||| |||
Db 5 KLPDLCTEL 13
```

```

RESULT 32
US-11-021-949-1
; Sequence 1, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SANTIBENITO, CHAMORO SONOZA
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 25
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-1
```

```

Query Match      87.8%; Score 43; DB 6; Length 25;
Best Local Similarity 88.9%; Pred. No. 0.87;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 KLPDLCTEL 9
    ||| |||
Db 10 KLPDLCTEL 18
```

```

RESULT 33
US-10-476-570-53
; Sequence 53, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIER, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
```

```

; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; PRIOR FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 53
; LENGTH: 30
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 15-44
US-10-476-570-53
```

```

Query Match      87.8%; Score 43; DB 4; Length 30;
Best Local Similarity 88.9%; Pred. No. 1;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 KLPDLCTEL 9
        ||| |||||
Db      4 KLPDLCTEL 12
```

```

RESULT 34
US-10-858-384-4
; Sequence 4, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPIN, JEANNINE
; APPLICANT: BOURGAULT-VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; CURRENT FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin Ver. 3.2
; SEQ ID NO 4
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of the Artificial Sequence: Peptide fragment
; OTHER INFORMATION: for E6 of HPV
US-10-858-384-4
```

```

Query Match      87.8%; Score 43; DB 5; Length 30;
Best Local Similarity 88.9%; Pred. No. 1;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 KLPDLCTEL 9
        ||| |||||
Db      4 KLPDLCTEL 12
```

```

RESULT 35
US-10-476-570-9
; Sequence 9, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
```

```

; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; PRIOR FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 9
; LENGTH: 32
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 14-45
US-10-476-570-9
```

```

Query Match      87.8%; Score 43; DB 4; Length 32;
Best Local Similarity 88.9%; Pred. No. 1;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 KLPDLCTEL 9
        ||| |||||
Db      5 KLPDLCTEL 13
```

```

RESULT 36
US-10-476-570-19
; Sequence 19, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: Papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 19
; LENGTH: 33
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 14-46
US-10-476-570-19
```

```

Query Match      87.8%; Score 43; DB 4; Length 33;
Best Local Similarity 88.9%; Pred. No. 1;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 KLPDLCTEL 9
        ||| |||||
Db      5 KLPDLCTEL 13
```

```
RESULT 37
US-10-751-845-126
; Sequence 126, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 126
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-126

Query Match      87.8%; Score 43; DB 5; Length 117;
Best Local Similarity 88.9%; Pred. No. 4.1;
Matches      8; Conservative      0; Mismatches      1; Indels      0; Gaps      0;

Qy      1 KLPDLCTEL 9
      ||| ||| |||
Db      11 KLPDLCTEL 19

RESULT 38
US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
; APPLICANT: Schuler, Gerold
; APPLICANT: N.V. Antwerpse Innovatiecentrum
; TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with linear
; TITLE OF INVENTION: Polynucleotides by Electroporation
; FILE REFERENCE: 021505wo/JH/ml
; CURRENT APPLICATION NUMBER: US/10/177,390
; CURRENT FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-177-390-6

Query Match      87.8%; Score 43; DB 4; Length 151;
Best Local Similarity 88.9%; Pred. No. 5.4;
Matches      8; Conservative      0; Mismatches      1; Indels      0; Gaps      0;

Qy      1 KLPDLCTEL 9
      ||| ||| |||
Db      11 KLPDLCTEL 19

RESULT 39
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLEMO
; TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
```

```
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-20

Query Match      87.8%; Score 43; DB 5; Length 151;
Best Local Similarity 88.9%; Pred. No. 5.4;
Matches      8; Conservative      0; Mismatches      1; Indels      0; Gaps      0;

Qy      1 KLPDLCTEL 9
      ||| ||| |||
Db      11 KLPDLCTEL 19

RESULT 40
US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLEMO
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-484-063-27

Query Match      87.8%; Score 43; DB 5; Length 151;
Best Local Similarity 88.9%; Pred. No. 5.4;
Matches      8; Conservative      0; Mismatches      1; Indels      0; Gaps      0;

Qy      1 KLPDLCTEL 9
      ||| ||| |||
Db      11 KLPDLCTEL 19

RESULT 41
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US2005003025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCES
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
```

```

; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; CURRENT FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin Ver. 3.2
; SEQ ID NO 2
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-10-858-384-2

Query Match      87.8%; Score 43; DB 5; Length 158;
Best Local Similarity 88.9%; Pred. No. 5.6;
Matches      8; Conservative      0; Mismatches      1; Indels      0; Gaps      0;

QY      1 KLPDLCTEL 9
DB      18 KLPDLCTEL 26

RESULT 42
US-10-367-057-16
; Sequence 16, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
; APPLICANT: Cuthill, Scott;
; APPLICANT: Jackson, Amanda;
; APPLICANT: Lewin, David A.;
; APPLICANT: Ooi, Chean Eng
; TITLE OF INVENTION: Complexes and Methods of Using Same
; FILE REFERENCE: 21402-559
; CURRENT APPLICATION NUMBER: US/10/367,057
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: 60/256,911
; PRIOR FILING DATE: 2002-02-14
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 16
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-367-057-16

Query Match      87.8%; Score 43; DB 5; Length 158;
Best Local Similarity 88.9%; Pred. No. 5.6;
Matches      8; Conservative      0; Mismatches      1; Indels      0; Gaps      0;

QY      1 KLPDLCTEL 9
DB      18 KLPDLCTEL 26

RESULT 43
US-11-021-949-13
; Sequence 13, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; ORGANISM: human papilloma virus (HPV)

```

```

; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

Query Match      87.8%; Score 43; DB 6; Length 158;
Best Local Similarity 88.9%; Pred. No. 5.6;
Matches      8; Conservative      0; Mismatches      1; Indels      0; Gaps      0;

QY      1 KLPDLCTEL 9
DB      18 KLPDLCTEL 26

RESULT 44
US-11-021-949-30
; Sequence 30, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 30
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-30

Query Match      87.8%; Score 43; DB 6; Length 158;
Best Local Similarity 88.9%; Pred. No. 5.6;
Matches      8; Conservative      0; Mismatches      1; Indels      0; Gaps      0;

QY      1 KLPDLCTEL 9
DB      13 KLPDLCTEL 21

RESULT 45
US-11-021-949-361
; Sequence 361, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 361
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)

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US-11-021-949-361

Query Match 87.8%; Score 43; DB 6; Length 158;  
Best Local Similarity 88.9%; Pred. No. 5.6;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
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Db 13 KLPDLCTEL 21

RESULT 46

US-10-472-724-2  
; Sequence 2, Application US/10472724  
; Publication No. US20040171806A1  
; GENERAL INFORMATION:  
; APPLICANT: Cid-Atregui, Angel  
; APPLICANT: Zur Hausen, Harald  
; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination  
; FILE REFERENCE: 4121-154  
; CURRENT APPLICATION NUMBER: US/10/472,724  
; PRIOR FILING DATE: 2003-09-17  
; PRIOR APPLICATION NUMBER: PCT/EP02/03271  
; PRIOR FILING DATE: 2002-03-22  
; PRIOR APPLICATION NUMBER: EP 01107271.7  
; PRIOR FILING DATE: 2001-03-23  
; NUMBER OF SEQ ID NOS: 27  
; SOFTWARE: Patentin version 3.2  
; SEQ ID NO 2  
; LENGTH: 171  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic Construct  
US-10-472-724-2

Query Match 87.8%; Score 43; DB 4; Length 171;  
Best Local Similarity 88.9%; Pred. No. 6.1;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
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Db 23 KLPDLCTEL 31

RESULT 47

US-11-072-288-1  
; Sequence 1, Application US/11072288  
; Publication No. US20050159386A1  
; GENERAL INFORMATION:  
; APPLICANT: Kieny, Marie-Paule  
; APPLICANT: BIZOUANE, Nadine  
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC  
; FILE REFERENCE: 017753-122  
; CURRENT APPLICATION NUMBER: US/11/072,288  
; PRIOR FILING DATE: 2005-03-07  
; PRIOR APPLICATION NUMBER: US/09/462,993  
; PRIOR FILING DATE: 2000-04-17  
; PRIOR APPLICATION NUMBER: PCT/FR98/01576  
; PRIOR FILING DATE: 1998-07-17  
; PRIOR APPLICATION NUMBER: FR 97/09152  
; PRIOR FILING DATE: 1997-07-18  
; NUMBER OF SEQ ID NOS: 23  
; SOFTWARE: Patentin Ver. 2.2  
; SEQ ID NO 1  
; LENGTH: 243  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Derived from  
; OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein

; OTHER INFORMATION: fused F protein signals, clone E6\*TMF.  
US-11-072-288-1

Query Match 87.8%; Score 43; DB 6; Length 243;  
Best Local Similarity 88.9%; Pred. No. 8.7;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
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Db 46 KLPDLCTEL 54

RESULT 48

US-09-367-309A-1  
; Sequence 1, Application US/09367309A  
; Publication No. US20020081329A1  
; GENERAL INFORMATION:  
; APPLICANT: MACFARLAN, RODERICK I.  
; APPLICANT: MALLIAROS, JIM  
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES  
; FILE REFERENCE: 017227/0149  
; CURRENT APPLICATION NUMBER: US/09/367,309A  
; PRIOR FILING DATE: 1999-08-11  
; PRIOR APPLICATION NUMBER: PCT/AU98/00080  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: AU PO 5178  
; PRIOR FILING DATE: 1997-02-19  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 266  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-09-367-309A-1

Query Match 87.8%; Score 43; DB 3; Length 266;  
Best Local Similarity 88.9%; Pred. No. 9.5;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
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Db 18 KLPDLCTEL 26

RESULT 49

US-10-000-903-4  
; Sequence 4, Application US/10000903  
; Publication No. US20020182221A1  
; GENERAL INFORMATION:  
; APPLICANT: Bruck, Claudine  
; APPLICANT: Gabazon Silva, Teresa  
; APPLICANT: Delisse, Anne-Marie Eva Fernande  
; APPLICANT: Gerard, Catherine Marie Chistaine  
; APPLICANT: Lombardo-Bencheikh, Angela  
; TITLE OF INVENTION: Vaccine  
; FILE REFERENCE: B45107  
; CURRENT APPLICATION NUMBER: US/10/000,903  
; PRIOR FILING DATE: 2001-10-01  
; PRIOR APPLICATION NUMBER: PCT/EP98/05285  
; PRIOR FILING DATE: 1998-08-17  
; PRIOR APPLICATION NUMBER: GB 9717953.5  
; PRIOR FILING DATE: 1997-08-22  
; NUMBER OF SEQ ID NOS: 23  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 4  
; LENGTH: 273  
; TYPE: PRT  
; ORGANISM: Homo sapien  
US-10-000-903-4

Query Match 87.8%; Score 43; DB 4; Length 273;  
Best Local Similarity 88.9%; Pred. No. 9.7;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
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Db 124 KLPDLCTEL 132

RESULT 50  
US-10-899-771-4  
; Sequence 4, Application US/10899771  
; Publication No. US20050031638A1  
; GENERAL INFORMATION:  
; APPLICANT: Dalemans, Wilfried L.J.  
; APPLICANT: Gerard, Catherine Marie Ghislaine  
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins  
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide  
; FILE REFERENCE: B45124  
; CURRENT APPLICATION NUMBER: US/10/899,771  
; PRIOR FILING DATE: 2004-07-27  
; PRIOR APPLICATION NUMBER: US/09/581,976  
; PRIOR FILING DATE: 2000-06-20  
; PRIOR APPLICATION NUMBER: PCT/EP98/08563  
; PRIOR FILING DATE: 1998-12-18  
; PRIOR APPLICATION NUMBER: GB 9727262.9  
; PRIOR FILING DATE: 1997-12-24  
; NUMBER OF SEQ ID NOS: 28  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 4  
; LENGTH: 273  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus  
; OTHER INFORMATION: Influenzae B and B6 from Human papilloma virus type  
; OTHER INFORMATION: 16)  
US-10-899-771-4

Query Match 87.8%; Score 43; DB 5; Length 273;  
Best Local Similarity 88.9%; Pred. No. 9.7;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
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Db 124 KLPDLCTEL 132

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Job time : 58.3 secs



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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:40:52 ; Search time 8.4 Seconds  
(Without alignments)  
49.591 Million cell updates/sec

Title: US-08-170-344-21  
Perfect score: 49  
Sequence: 1 KLPDLCTEL 9

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Maximum Match 100%  
Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

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2	49	100.0	158	9	US-10-530-253-20
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4	43	87.8	158	9	US-10-530-253-19
5	43	87.8	158	11	US-11-206-138-3
6	43	87.8	248	9	US-10-530-253-1
7	43	87.8	248	9	US-10-530-253-3
8	43	87.8	248	9	US-10-530-253-5
9	43	87.8	248	9	US-10-530-253-7
10	43	87.8	248	9	US-10-530-253-9
11	43	87.8	256	9	US-10-530-253-11
12	43	87.8	256	11	US-11-192-923A-2
13	37	75.5	158	9	US-10-530-253-26
14	36	73.5	172	11	US-11-188-298-17891
15	36	73.5	1032	11	US-11-014-367-3
16	35	71.4	228	11	US-11-264-096-492
17	35	71.4	615	11	US-11-188-298-4756
18	35	71.4	812	11	US-11-079-463-6485
19	34	69.4	313	11	US-11-087-099-8808
20	34	69.4	326	11	US-11-072-512-3428
21	34	69.4	470	11	US-11-079-463-8862

22	33	67.3	160	9	US-10-530-253-25	Sequence 25, Appl
23	33	67.3	175	11	US-11-188-298-4065	Sequence 4065, Ap
24	33	67.3	243	11	US-11-079-463-9899	Sequence 9899, Ap
25	33	67.3	274	11	US-11-079-463-8578	Sequence 8578, Ap
26	33	67.3	384	11	US-11-072-512-3188	Sequence 3188, Ap
27	33	67.3	394	11	US-11-188-298-17317	Sequence 17317, A
28	33	67.3	419	11	US-11-230-321-2	Sequence 2, Appl1
29	33	67.3	457	11	US-11-079-463-6587	Sequence 6587, Ap
30	33	67.3	565	11	US-11-096-568A-1994	Sequence 1994, Ap
31	33	67.3	565	11	US-11-096-568A-27236	Sequence 27236, A
32	33	67.3	624	11	US-11-096-568A-1993	Sequence 1993, Ap
33	33	67.3	624	11	US-11-096-568A-27235	Sequence 27235, A
34	33	67.3	625	11	US-11-096-568A-1992	Sequence 1992, Ap
35	33	67.3	625	11	US-11-096-568A-27234	Sequence 27234, A
36	33	67.3	679	11	US-11-079-463-7773	Sequence 7773, Ap
37	33	67.3	801	11	US-11-087-099-969	Sequence 969, Ap
38	32	65.3	149	9	US-10-530-253-18	Sequence 18, Appl
39	32	65.3	340	11	US-11-087-099-4414	Sequence 4414, Ap
40	32	65.3	340	11	US-11-188-298-15084	Sequence 15084, A
41	32	65.3	360	9	US-10-288-733-2	Sequence 2, Appl1
42	32	65.3	376	9	US-10-506-454-713	Sequence 713, App
43	32	65.3	394	11	US-11-188-298-926	Sequence 926, App
44	32	65.3	394	11	US-11-188-298-1319	Sequence 1319, Ap
45	32	65.3	394	11	US-11-188-298-15528	Sequence 15528, A
46	32	65.3	553	11	US-11-103-957-61	Sequence 61, Appl
47	32	65.3	621	11	US-11-184-380-26	Sequence 26, Appl
48	32	65.3	664	9	US-10-793-626-1258	Sequence 1258, Ap
49	32	65.3	686	11	US-11-079-463-6039	Sequence 6039, Ap
50	32	65.3	754	9	US-10-467-962B-63	Sequence 63, Appl
51	32	65.3	836	11	US-11-087-099-2386	Sequence 2386, Ap
52	31	63.3	183	11	US-11-079-463-7409	Sequence 7409, Ap
53	31	63.3	177	11	US-11-079-463-7727	Sequence 7727, Ap
54	31	63.3	204	11	US-11-209-388-16	Sequence 16, Appl
55	31	63.3	205	11	US-11-209-388-10	Sequence 10, Appl
56	31	63.3	209	11	US-11-087-099-2315	Sequence 2315, Ap
57	31	63.3	229	9	US-10-242-586-8	Sequence 8, Appl1
58	31	63.3	229	9	US-10-242-582-8	Sequence 8, Appl1
59	31	63.3	229	9	US-10-243-116-8	Sequence 8, Appl1
60	31	63.3	229	9	US-10-243-136-8	Sequence 8, Appl1
61	31	63.3	229	9	US-10-243-189-8	Sequence 8, Appl1
62	31	63.3	229	9	US-10-243-215-8	Sequence 8, Appl1
63	31	63.3	229	9	US-10-243-216-8	Sequence 8, Appl1
64	31	63.3	229	9	US-10-243-298-8	Sequence 8, Appl1
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67	31	63.3	229	9	US-10-243-345-8	Sequence 8, Appl1
68	31	63.3	229	9	US-10-243-357-8	Sequence 8, Appl1
69	31	63.3	229	9	US-10-245-083-8	Sequence 8, Appl1
70	31	63.3	229	9	US-10-247-015-8	Sequence 8, Appl1
71	31	63.3	268	11	US-11-045-004-2466	Sequence 2466, Ap
72	31	63.3	275	9	US-10-506-454-1472	Sequence 1472, Ap
73	31	63.3	291	11	US-11-096-568A-23393	Sequence 23393, A
74	31	63.3	298	11	US-11-096-568A-24700	Sequence 24700, A
75	31	63.3	340	11	US-11-096-568A-23392	Sequence 23392, A
76	31	63.3	347	11	US-11-087-099-7533	Sequence 7533, Ap
77	31	63.3	374	11	US-11-188-298-14269	Sequence 14269, A
78	31	63.3	382	9	US-10-703-799B-40	Sequence 40, Appl1
79	31	63.3	390	11	US-11-096-568A-33351	Sequence 33351, A
80	31	63.3	390	11	US-11-096-568A-33629	Sequence 33629, A
81	31	63.3	394	11	US-11-188-298-21485	Sequence 21485, A
82	31	63.3	401	11	US-11-096-568A-32350	Sequence 32350, A
83	31	63.3	401	11	US-11-096-568A-33628	Sequence 33628, A
84	31	63.3	414	11	US-11-096-568A-23391	Sequence 23391, A
85	31	63.3	425	11	US-11-096-568A-33349	Sequence 33349, A
86	31	63.3	425	11	US-11-096-568A-33627	Sequence 33627, A
87	31	63.3	452	11	US-11-133-949-19	Sequence 19, Appl1
88	31	63.3	457	11	US-11-087-099-10361	Sequence 10361, A
89	31	63.3	480	11	US-11-188-298-6789	Sequence 6789, Ap
90	31	63.3	578	9	US-10-505-928-401	Sequence 401, App
91	31	63.3	616	9	US-10-467-657-1220	Sequence 1220, Ap
92	31	63.3	633	11	US-11-063-343-26	Sequence 26, Appl
93	31	63.3	639	11	US-11-124-367A-379	Sequence 379, App
94	31	63.3	665	11	US-11-188-298-8758	Sequence 8758, Ap

95	31	63.3	782	11	US-11-124-367A-380	Sequence 380, App	168	30	61.2	1235	9	US-10-784-004-783	Sequence 783, App
96	31	63.3	799	11	US-11-124-367A-378	Sequence 378, App	169	30	61.2	1235	9	US-10-784-004-1111	Sequence 1111, App
97	31	63.3	801	9	US-10-532-153-9	Sequence 9, Appl1	170	30	61.2	1305	9	US-10-784-004-671	Sequence 671, App
98	31	63.3	808	9	US-10-532-153-3	Sequence 3, Appl1	171	30	61.2	1305	9	US-10-784-004-789	Sequence 789, App
99	31	63.3	808	9	US-10-532-153-6	Sequence 6, Appl1	172	30	61.2	1305	9	US-10-784-004-1066	Sequence 1066, App
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102	31	63.3	839	11	US-11-124-367A-377	Sequence 377, App	175	30	61.2	1515	9	US-10-784-004-1098	Sequence 1098, App
103	31	63.3	1659	9	US-10-508-307-1	Sequence 1, Appl1	176	30	61.2	1585	9	US-10-784-004-659	Sequence 659, App
104	31	63.3	1659	9	US-11-072-175-205	Sequence 205, App	177	30	61.2	1585	9	US-10-784-004-1078	Sequence 1078, App
105	31	63.3	4097	9	US-10-501-035-263	Sequence 263, App	178	30	61.2	1655	9	US-10-784-004-668	Sequence 668, App
106	31	63.3	4128	9	US-10-770-726-77	Sequence 77, Appl1	179	30	61.2	1655	9	US-10-784-004-1064	Sequence 1064, App
107	30	61.2	48	9	US-10-632-150-75	Sequence 75, Appl1	180	30	61.2	1725	9	US-10-784-004-659	Sequence 659, App
108	30	61.2	48	10	US-11-106-014-75	Sequence 75, Appl1	181	30	61.2	1725	9	US-10-784-004-1058	Sequence 1058, App
109	30	61.2	48	11	US-11-073-457-75	Sequence 75, Appl1	182	30	61.2	1795	9	US-10-784-004-662	Sequence 662, App
110	30	61.2	48	11	US-11-073-460-75	Sequence 75, Appl1	183	30	61.2	1795	9	US-10-784-004-1061	Sequence 1061, App
111	30	61.2	52	11	US-11-096-568A-1159	Sequence 1159, App	184	30	61.2	1935	9	US-10-784-004-311	Sequence 311, App
112	30	61.2	123	9	US-10-506-454-1596	Sequence 1596, App	185	30	61.2	1935	9	US-10-784-004-339	Sequence 329, App
113	30	61.2	144	11	US-11-172-740-1306	Sequence 1306, App	186	30	61.2	1935	9	US-10-784-004-331	Sequence 331, App
114	30	61.2	172	11	US-11-087-099-6040	Sequence 6040, App	187	30	61.2	1935	9	US-10-784-004-440	Sequence 440, App
115	30	61.2	184	9	US-10-665-658-7	Sequence 7, Appl1	188	30	61.2	1935	9	US-10-784-004-633	Sequence 633, App
116	30	61.2	184	9	US-10-665-658-8	Sequence 8, Appl1	189	30	61.2	1935	9	US-10-784-004-652	Sequence 652, App
117	30	61.2	186	9	US-10-784-004-352	Sequence 352, App	190	30	61.2	1935	9	US-10-784-004-650	Sequence 650, App
118	30	61.2	186	9	US-10-784-004-922	Sequence 922, App	191	30	61.2	1935	9	US-10-784-004-757	Sequence 757, App
119	30	61.2	186	9	US-11-188-298-4956	Sequence 4956, App	192	30	61.2	1935	9	US-10-784-004-781	Sequence 781, App
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122	30	61.2	187	11	US-11-087-099-9124	Sequence 9124, App	195	30	61.2	1935	9	US-10-784-004-914	Sequence 914, App
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148	30	61.2	621	9	US-10-632-150-56	Sequence 56, Appl1	221	29	59.2	81	11	US-11-198-847-158	Sequence 158, App
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405	28	57.1	1013	9	US-10-137-872A-38	Sequence 38, Appl	478	27	55.1	146	11	US-11-096-568A-3994	Sequence 3994, Ap
406	28	57.1	1013	9	US-10-152-370-38	Sequence 38, Appl	479	27	55.1	146	11	US-11-096-568A-29968	Sequence 29968, A
407	28	57.1	1013	9	US-10-152-370-38	Sequence 38, Appl	480	27	55.1	148	11	US-11-096-568A-29967	Sequence 29967, A
408	28	57.1	1018	11	US-11-067-121-17	Sequence 17, Appl	481	27	55.1	150	9	US-10-469-561-25	Sequence 25, Appl
409	28	57.1	1036	9	US-10-131-826A-142	Sequence 142, Appl	482	27	55.1	152	11	US-11-079-463-6202	Sequence 6202, Ap
410	28	57.1	1036	9	US-10-973-115B-142	Sequence 142, Appl	483	27	55.1	153	8	US-10-511-937-2476	Sequence 2476, Ap
411	28	57.1	1036	9	US-10-137-872A-142	Sequence 142, Appl	484	27	55.1	153	11	US-11-174-398-8	Sequence 8, Appl1
412	28	57.1	1036	9	US-10-152-370-142	Sequence 142, Appl	485	27	55.1	153	11	US-11-289-226-113	Sequence 13, Appl
413	28	57.1	1036	11	US-11-290-153-142	Sequence 142, App	486	27	55.1	162	11	US-11-055-822-1150	Sequence 1150, Ap
414	28	57.1	1038	8	US-10-511-937-2443	Sequence 2443, App	487	27	55.1	167	9	US-10-506-454-715	Sequence 725, App
415	28	57.1	1038	11	US-11-107-028-1	Sequence 1, Appl1	488	27	55.1	168	9	US-11-055-832-160	Sequence 196, App
416	28	57.1	1125	11	US-11-024-959-360	Sequence 360, Appl	489	27	55.1	168	11	US-11-055-832-360	Sequence 360, App
417	28	57.1	1188	11	US-11-188-298-5489	Sequence 5489, Ap	490	27	55.1	170	11	US-11-096-568A-29966	Sequence 29966, A
418	28	57.1	1261	11	US-11-072-175-192	Sequence 192, App	491	27	55.1	188	11	US-11-182-408-66	Sequence 66, Appl
419	28	57.1	1896	9	US-10-877-346-13	Sequence 13, Appl	492	27	55.1	188	11	US-11-182-408-66	Sequence 66, Appl
420	28	57.1	1971	9	US-10-961-231-1	Sequence 1, Appl1	493	27	55.1	189	11	US-11-079-463-9089	Sequence 9089, Ap
421	28	57.1	1971	11	US-11-179-624-1	Sequence 1, Appl1	494	27	55.1	198	11	US-11-126-427-12	Sequence 12, Appl
422	28	57.1	2291	11	US-11-090-617-706	Sequence 706, App	495	27	55.1	198	11	US-11-079-463-9373	Sequence 8733, Ap
423	27	55.1	8	11	US-11-045-024-1620	Sequence 1620, Ap	496	27	55.1	207	11	US-11-126-427-6	Sequence 6, Appl1
424	27	55.1	8	11	US-11-045-024-4333	Sequence 4333, Ap	497	27	55.1	207	11	US-11-126-427-6	Sequence 8, Appl1
425	27	55.1	8	11	US-11-045-024-7592	Sequence 7592, Ap	498	27	55.1	212	9	US-10-330-773-286	Sequence 286, App
426	27	55.1	9	11	US-11-045-024-1828	Sequence 1828, Ap	499	27	55.1	214	11	US-11-126-427-10	Sequence 10, Appl
427	27	55.1	9	11	US-11-045-024-4445	Sequence 4445, Ap	500	27	55.1	215	11	US-11-045-004-2686	Sequence 2686, Ap
428	27	55.1	9	11	US-11-045-024-7595	Sequence 7595, Ap	501	27	55.1	219	11	US-11-045-004-1020	Sequence 1020, Ap
429	27	55.1	9	11	US-11-045-024-13908	Sequence 13908, A	502	27	55.1	234	11	US-11-096-568A-11610	Sequence 11610, A
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432	27	55.1	9	11	US-11-045-024-14359	Sequence 14359, A	505	27	55.1	242	11	US-11-188-298-4046	Sequence 4046, Ap
433	27	55.1	10	11	US-11-045-024-2067	Sequence 2067, Ap	506	27	55.1	243	9	US-10-131-826A-362	Sequence 362, App
434	27	55.1	10	11	US-11-045-024-3287	Sequence 3287, Ap	507	27	55.1	243	9	US-10-973-115B-162	Sequence 162, App
435	27	55.1	10	11	US-11-045-024-6582	Sequence 6582, Ap	508	27	55.1	243	9	US-10-137-872A-362	Sequence 362, App
436	27	55.1	10	11	US-11-045-024-9684	Sequence 9684, Ap	509	27	55.1	243	9	US-10-152-370-362	Sequence 362, App
437	27	55.1	10	11	US-11-045-024-11685	Sequence 11685, A	510	27	55.1	243	11	US-11-290-153-362	Sequence 362, App
438	27	55.1	10	11	US-11-045-024-3370	Sequence 3370, Ap	511	27	55.1	254	11	US-11-079-463-6325	Sequence 6325, Ap
439	27	55.1	11	11	US-11-045-024-5944	Sequence 5944, Ap	512	27	55.1	255	11	US-11-026-396-5	Sequence 5, Appl1
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443	27	55.1	15	11	US-11-045-024-13433	Sequence 13433, A	516	27	55.1	273	11	US-11-096-568A-33302	Sequence 33302, A
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446	27	55.1	86	11	US-11-264-096-868	Sequence 868, App	519	27	55.1	282	11	US-11-087-099-6816	Sequence 6816, Ap
447	27	55.1	90	9	US-10-467-657-4080	Sequence 4080, Ap	520	27	55.1	282	11	US-11-096-568A-33301	Sequence 33301, A
448	27	55.1	106	11	US-11-264-096-791	Sequence 791, App	521	27	55.1	282	11	US-11-188-298-4552	Sequence 4552, App
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453	27	55.1	129	11	US-11-176-830-546	Sequence 546, App	526	27	55.1	287	11	US-11-188-298-3945	Sequence 3945, Ap
454	27	55.1	129	11	US-11-176-830-547	Sequence 547, App	527	27	55.1	287	11	US-11-188-298-9640	Sequence 9640, Ap
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456	27	55.1	129	11	US-11-176-830-549	Sequence 549, App	529	27	55.1	288	11	US-11-188-298-21619	Sequence 21619, A
457	27	55.1	129	11	US-11-176-830-550	Sequence 550, App	530	27	55.1	292	11	US-11-079-463-7154	Sequence 7154, Ap
458	27	55.1	129	11	US-11-176-830-551	Sequence 551, App	531	27	55.1	293	11	US-11-096-568A-25674	Sequence 25674, A
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535	27	55.1	296	11	US-11-188-298-12988	Sequence 12988, A	608	27	55.1	496	11	US-11-087-099-9508	Sequence 9508, Ap
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539	27	55.1	319	9	US-10-784-004-446	Sequence 446, App	612	27	55.1	515	11	US-11-096-568A-77469	Sequence 27469, A
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543	27	55.1	325	9	US-10-973-1158-516	Sequence 516, App	616	27	55.1	527	11	US-11-096-568A-28901	Sequence 28901, A
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545	27	55.1	325	9	US-10-137-873A-516	Sequence 516, App	618	27	55.1	537	11	US-11-079-463-7995	Sequence 7995, Ap
546	27	55.1	325	9	US-10-152-370-516	Sequence 516, App	619	27	55.1	539	11	US-11-087-099-3785	Sequence 3785, Ap
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549	27	55.1	335	11	US-11-152-892-12	Sequence 12, Appli	622	27	55.1	546	11	US-11-188-298-11292	Sequence 11292, A
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554	27	55.1	345	11	US-11-124-368A-285	Sequence 285, App	627	27	55.1	551	9	US-10-880-881-37	Sequence 37, Appli
555	27	55.1	345	11	US-11-096-568A-25673	Sequence 25673, A	628	27	55.1	552	9	US-10-880-881-8	Sequence 8, Appli
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568	27	55.1	405	11	US-11-188-298-15166	Sequence 15166, A	641	27	55.1	586	11	US-11-172-740-969	Sequence 969, App
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572	27	55.1	414	11	US-11-087-099-8843	Sequence 28902, A	645	27	55.1	612	11	US-11-096-568A-29268	Sequence 29268, A
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577	27	55.1	430	11	US-11-085-822-412	Sequence 412, App	650	27	55.1	646	11	US-11-096-568A-27468	Sequence 27468, A
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579	27	55.1	437	11	US-11-087-099-5721	Sequence 5721, Ap	652	27	55.1	661	9	US-10-453-372-648	Sequence 648, App
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581	27	55.1	444	11	US-11-096-568A-11404	Sequence 11404, A	654	27	55.1	661	9	US-10-995-561-922	Sequence 924, Appli
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584	27	55.1	449	9	US-10-873-528-110	Sequence 110, App	657	27	55.1	661	9	US-10-194-487-88	Sequence 88, Appli
585	27	55.1	452	11	US-11-186-284-79	Sequence 79, Appli	658	27	55.1	661	9	US-10-195-883-88	Sequence 88, Appli
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587	27	55.1	452	11	US-11-188-298-6678	Sequence 6678, Ap	660	27	55.1	661	9	US-10-195-889-88	Sequence 88, Appli
588	27	55.1	452	11	US-11-188-298-19677	Sequence 19677, A	661	27	55.1	661	9	US-10-216-161A-74	Sequence 74, Appli
589	27	55.1	455	9	US-10-880-881-4	Sequence 4, Appli	662	27	55.1	661	9	US-11-009-063-31	Sequence 31, Appli
590	27	55.1	460	9	US-10-330-773-283	Sequence 283, App	663	27	55.1	661	9	US-11-188-298-8040	Sequence 8040, Ap
591	27	55.1	463	11	US-11-264-096-1565	Sequence 1565, Ap	664	27	55.1	661	9	US-11-019-111-115	Sequence 115, App
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597	27	55.1	474	10	US-11-301-554-1812	Sequence 1812, Ap	670	27	55.1	661	9	US-10-194-487-66	Sequence 466, App
598	27	55.1	474	10	US-11-079-463-4462	Sequence 862, Ap	671	27	55.1	661	9	US-10-195-883-466	Sequence 466, App
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605	27	55.1	493	11	US-11-096-568A-11403	Sequence 11403, A	678	27	55.1	661	9	US-11-096-568A-27819	Sequence 27819, A

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681	27	55.1	832	11	US-11-182-016-8	Sequence 8, Appl	754	26	53.1	22	11	US-11-213-443-13	Sequence 13, Appl
682	27	55.1	834	9	US-10-453-372-658	Sequence 658, App	755	26	53.1	26	9	US-10-939-890-301	Sequence 301, App
683	27	55.1	847	9	US-10-453-372-654	Sequence 654, App	756	26	53.1	33	9	US-10-760-088-106	Sequence 106, App
684	27	55.1	857	9	US-10-453-372-652	Sequence 652, App	757	26	53.1	35	9	US-10-527-833-1	Sequence 1, Appl
685	27	55.1	874	9	US-10-455-772-162	Sequence 162, App	758	26	53.1	38	11	US-11-050-857-1124	Sequence 1124, Ap
686	27	55.1	895	9	US-10-455-772-160	Sequence 160, App	759	26	53.1	46	9	US-10-207-797-192	Sequence 192, App
687	27	55.1	896	11	US-11-192-219-3	Sequence 3, Appl	760	26	53.1	47	11	US-11-096-568A-14499	Sequence 14499, A
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702	27	55.1	945	9	US-10-973-115B-146	Sequence 146, App	775	26	53.1	58	9	US-10-207-797-57	Sequence 57, Appl
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744	26.5	54.1	334	9	US-10-219-061-86	Sequence 86, Appl	817	26	53.1	58	9	US-10-207-797-182	Sequence 182, App
745	26.5	54.1	334	9	US-10-219-062-86	Sequence 86, Appl	818	26	53.1	58	9	US-10-207-797-183	Sequence 183, App
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974 26 53.1 300 11 US-11-045-004-2054 Sequence 2054, Ap
975 26 53.1 301 11 US-11-096-568A-15460 Sequence 15460, A
976 26 53.1 302 11 US-11-087-099-7751 Sequence 7751, Ap
977 26 53.1 302 11 US-11-096-568A-32994 Sequence 32994, A
978 26 53.1 303 11 US-11-087-099-2307 Sequence 2307, Ap
979 26 53.1 303 11 US-11-096-568A-14763 Sequence 14763, A
980 26 53.1 304 11 US-11-079-463-9483 Sequence 9483, Ap
981 26 53.1 305 11 US-11-188-298-18401 Sequence 18401, A
982 26 53.1 306 11 US-11-166-412-220 Sequence 220, App
983 26 53.1 306 11 US-11-096-568A-33616 Sequence 33616, A
984 26 53.1 307 11 US-11-055-822-682 Sequence 682, App
985 26 53.1 312 9 US-11-166-412-228 Sequence 34, Appl
986 26 53.1 313 11 US-11-166-412-228 Sequence 228, App
987 26 53.1 315 9 US-10-703-799B-212 Sequence 212, App
988 26 53.1 315 11 US-11-188-298-20086 Sequence 20086, A
989 26 53.1 316 11 US-11-096-568A-32993 Sequence 32993, A
990 26 53.1 317 11 US-11-188-298-20023 Sequence 20023, A
991 26 53.1 318 11 US-11-096-568A-4387 Sequence 4387, Ap
992 26 53.1 319 9 US-10-511-538-21 Sequence 21, Appl
993 26 53.1 322 9 US-10-467-657-1794 Sequence 1794, Ap
994 26 53.1 323 11 US-11-096-568A-32443 Sequence 32443, A
995 26 53.1 323 11 US-11-188-298-6597 Sequence 6597, Ap
996 26 53.1 324 11 US-11-096-568A-17533 Sequence 17533, A
997 26 53.1 324 11 US-11-096-568A-22741 Sequence 22741, A
998 26 53.1 326 11 US-11-188-298-19263 Sequence 19263, A
999 26 53.1 327 11 US-11-096-568A-32992 Sequence 32992, A
1000 26 53.1 328 11 US-11-096-568A-20428 Sequence 20428, A
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## ALIGNMENTS

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RESULT 1
US-10-530-253-15
; Sequence 15, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 18
US-10-530-253-15

Query Match          100.0%; Score 49; DB 9; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.035;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 2
US-10-530-253-20
; Sequence 20, Application US/10530253
; Publication No. US20060014926A1
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; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 20
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 45
US-10-530-253-20

Query Match          100.0%; Score 49; DB 9; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.035;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 3
US-10-530-253-13
; Sequence 13, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-13

Query Match          87.8%; Score 43; DB 9; Length 151;
Best Local Similarity 88.9%; Pred. No. 0.46;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
RESULT 4
US-10-530-253-19
; Sequence 19, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
```



```
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 19
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 39
US-10-530-253-19

Query Match      87.8%; Score 43; DB 9; Length 158;
Best Local Similarity 88.9%; Pred. No. 0.48;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTEL 9
      |||||
Db      13 KLPDLCTEL 21

RESULT 5
US-11-206-138-3
; Sequence 3, Application US/11206138
; Publication No. US2006003919A1
; GENERAL INFORMATION:
; APPLICANT: Healthbanc Biotech CO. LTD.
; TITLE OF INVENTION: Fusion protein for inhibiting cervical cancer
; FILE REFERENCE: P7819/0613
; CURRENT APPLICATION NUMBER: US/11/206,138
; CURRENT FILING DATE: 2005-08-18
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-11-206-138-3

Query Match      87.8%; Score 43; DB 11; Length 158;
Best Local Similarity 88.9%; Pred. No. 0.48;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTEL 9
      |||||
Db      18 KLPDLCTEL 26

RESULT 6
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 248
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; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-1

Query Match      87.8%; Score 43; DB 9; Length 248;
Best Local Similarity 88.9%; Pred. No. 0.74;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTEL 9
      |||||
Db      11 KLPDLCTEL 19

RESULT 7
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-3

Query Match      87.8%; Score 43; DB 9; Length 248;
Best Local Similarity 88.9%; Pred. No. 0.74;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTEL 9
      |||||
Db      11 KLPDLCTEL 19

RESULT 8
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-5

Query Match      87.8%; Score 43; DB 9; Length 248;
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Best Local Similarity 88.9%; Pred. No. 0.74;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDICTEL 9  
||| |||||  
Db 11 KLPOLCTEL 19

## RESULT 9

US-10-530-253-7  
; Sequence 7, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Cassecci, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; PRIOR FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 7  
; LENGTH: 248  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-10-530-253-7

Query Match 87.8%; Score 43; DB 9; Length 248;  
Best Local Similarity 88.9%; Pred. No. 0.74;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDICTEL 9  
||| |||||  
Db 108 KLPOLCTEL 116

## RESULT 10

US-10-530-253-9  
; Sequence 9, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Cassecci, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; PRIOR FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 9  
; LENGTH: 248  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-10-530-253-9

Query Match 87.8%; Score 43; DB 9; Length 248;  
Best Local Similarity 88.9%; Pred. No. 0.74;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDICTEL 9  
||| |||||

Db 108 KLPOLCTEL 116

## RESULT 11

US-10-530-253-11  
; Sequence 11, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Cassecci, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; PRIOR FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 11  
; LENGTH: 248  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-10-530-253-11

Query Match 87.8%; Score 43; DB 9; Length 248;  
Best Local Similarity 88.9%; Pred. No. 0.74;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDICTEL 9  
||| |||||  
Db 108 KLPOLCTEL 116

## RESULT 12

US-11-192-923A-2  
; Sequence 2, Application US/11192923A  
; Publication No. US20060018928A1  
; GENERAL INFORMATION:  
; APPLICANT: PANG, XIAOWU  
; TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS  
; FILE REFERENCE: 116620-003  
; CURRENT APPLICATION NUMBER: US/11/192,923A  
; PRIOR FILING DATE: 2005-07-29  
; PRIOR APPLICATION NUMBER: CN 03115272.4  
; PRIOR FILING DATE: 2003-01-30  
; PRIOR APPLICATION NUMBER: CN 03115273.2  
; PRIOR FILING DATE: 2003-01-30  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: PatentIn Ver. 3.3  
; SEQ ID NO 2  
; LENGTH: 256  
; TYPE: PRT  
; ORGANISM: Human papillomavirus  
US-11-192-923A-2

Query Match 87.8%; Score 43; DB 11; Length 256;  
Best Local Similarity 88.9%; Pred. No. 0.76;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDICTEL 9  
||| |||||  
Db 116 KLPOLCTEL 124

## RESULT 13

US-10-530-253-26  
; Sequence 26, Application US/10530253  
; Publication No. US20060014926A1

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/ GENERAL INFORMATION:
/ APPLICANT: Casasetti, Maria C.
/ APPLICANT: Smith, Larry
/ APPLICANT: Jeffrey K. Pullen
/ APPLICANT: Susan P. McElhinney
/ TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
/ FILE REFERENCE: 00630/100M17-US2
/ CURRENT APPLICATION NUMBER: US/10/530,253
/ PRIOR APPLICATION NUMBER: PCT/US2003/031726
/ PRIOR FILING DATE: 2003-10-02
/ PRIOR APPLICATION NUMBER: US 60/415,929
/ PRIOR FILING DATE: 2002-10-03
/ NUMBER OF SEQ ID NOS: 65
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 26
/ LENGTH: 158
/ TYPE: PRT
/ ORGANISM: Human papillomavirus type 68
/ US-10-530-253-26

Query Match          75.5%; Score 37; DB 9; Length 158;
Best Local Similarity 77.8%; Pred. No. 6.6;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9
Db 13 KLPDLCTRL 21

RESULT 14
US-11-188-298-17891
/ Sequence 17891, Application US/11188298
/ Publication No. US20060075522A1
/ GENERAL INFORMATION:
/ APPLICANT: Abad, Mark S. et al.
/ TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
/ FILE REFERENCE: 38-21(53452)B
/ CURRENT APPLICATION NUMBER: US/11/188,298
/ CURRENT FILING DATE: 2005-07-22
/ PRIOR APPLICATION NUMBER: 60/592,978
/ PRIOR FILING DATE: 2004-07-31
/ NUMBER OF SEQ ID NOS: 22569
/ SEQ ID NO 17891
/ LENGTH: 172
/ TYPE: PRT
/ ORGANISM: Prochlorococcus marinus str. MIT 9313
/ US-11-188-298-17891

Query Match          73.5%; Score 36; DB 11; Length 172;
Best Local Similarity 77.8%; Pred. No. 11;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9
Db 39 QLPDLCTRL 47

RESULT 15
US-11-014-367-3
/ Sequence 3, Application US/11014367
/ Publication No. US20050255451A1
/ GENERAL INFORMATION:
/ APPLICANT: Latz, Bicke
/ APPLICANT: Visintin, Alberto
/ APPLICANT: Goldenbock, Douglas T.
/ TITLE OF INVENTION: TOLL-LIKE RECEPTOR 9 MODULATORS
/ FILE REFERENCE: 07917-260001
/ CURRENT APPLICATION NUMBER: US/11/014,367
/ CURRENT FILING DATE: 2004-12-16
/ PRIOR APPLICATION NUMBER: US 60/530,115
/ PRIOR FILING DATE: 2003-12-16
/ PRIOR APPLICATION NUMBER: US 60/530,699
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/ PRIOR FILING DATE: 2003-12-16
/ NUMBER OF SEQ ID NOS: 11
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 3
/ LENGTH: 1032
/ TYPE: PRT
/ ORGANISM: Rattus norvegicus
/ US-11-014-367-3

Query Match          73.5%; Score 36; DB 11; Length 1032;
Best Local Similarity 100.0%; Pred. No. 63;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 PDLCTE 8
Db 262 PDLCTE 267

RESULT 16
US-11-264-096-492
/ Sequence 492, Application US/11264096
/ Publication No. US20060084794A1
/ GENERAL INFORMATION:
/ APPLICANT: Rosen et al.
/ TITLE OF INVENTION: Albumin Fusion Proteins
/ FILE REFERENCE: PP546D1
/ CURRENT APPLICATION NUMBER: US/11/264,096
/ CURRENT FILING DATE: 2005-11-02
/ PRIOR APPLICATION NUMBER: 09/833,245
/ PRIOR FILING DATE: 2001-04-12
/ PRIOR APPLICATION NUMBER: 60/229,358
/ PRIOR FILING DATE: 2000-04-12
/ PRIOR APPLICATION NUMBER: 60/256,931
/ PRIOR FILING DATE: 2000-12-21
/ PRIOR APPLICATION NUMBER: 60/199,384
/ PRIOR FILING DATE: 2000-04-25
/ NUMBER OF SEQ ID NOS: 2267
/ SEQ ID NO 492
/ LENGTH: 228
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ US-11-264-096-492

Query Match          71.4%; Score 35; DB 11; Length 228;
Best Local Similarity 66.7%; Pred. No. 23;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9
Db 55 QLPDLCTRL 63

RESULT 17
US-11-188-298-4756
/ Sequence 4756, Application US/11188298
/ Publication No. US20060075522A1
/ GENERAL INFORMATION:
/ APPLICANT: Abad, Mark S. et al.
/ TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
/ FILE REFERENCE: 38-21(53452)B
/ CURRENT APPLICATION NUMBER: US/11/188,298
/ CURRENT FILING DATE: 2005-07-22
/ PRIOR APPLICATION NUMBER: 60/592,978
/ PRIOR FILING DATE: 2004-07-31
/ NUMBER OF SEQ ID NOS: 22569
/ SEQ ID NO 4756
/ LENGTH: 615
/ TYPE: PRT
/ ORGANISM: Oryza sativa
/ US-11-188-298-4756

Query Match          71.4%; Score 35; DB 11; Length 615;
```

Best Local Similarity 77.8%; Pred. No. 59;  
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
|||:|  
Db 476 KLPDLCTEL 484

RESULT 18  
US-11-079-463-6485

; Sequence 6485, Application US/11079463  
; Publication No. US20060073161A1

; GENERAL INFORMATION:

; APPLICANT: Gary L. Breton

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FR

; FILE REFERENCE: PATH00-03DIV2

; CURRENT FILING DATE: 2005-03-14

; PRIOR FILING DATE: 1999-04-09

; PRIOR APPLICATION NUMBER: US 09/540,209

; PRIOR FILING DATE: 2000-04-04

; NUMBER OF SEQ ID NOS: 10444

; SEQ ID NO 6485

; LENGTH: 812

; TYPE: PRT

; ORGANISM: B. fragilis

US-11-079-463-6485

Query Match 71.4%; Score 35; DB 11; Length 812;  
Best Local Similarity 85.7%; Pred. No. 77;

Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KLPDLCT 7  
|||:|  
Db 764 KLPDLCT 770

RESULT 19

US-11-087-099-9808

; Sequence 9808, Application US/11087099

; Publication No. US2006001961A1

; GENERAL INFORMATION:

; APPLICANT: Abad, Mark S. et al.

; TITLE OF INVENTION: Genes and Uses for Plant Improvement

; FILE REFERENCE: 38-21(53450)B EP

; CURRENT APPLICATION NUMBER: US/11/087,099

; CURRENT FILING DATE: 2005-03-22

; NUMBER OF SEQ ID NOS: 12464

; SEQ ID NO 9808

; LENGTH: 313

; TYPE: PRT

; ORGANISM: Shewanella oneidensis MR-1

US-11-087-099-9808

Query Match 69.4%; Score 34; DB 11; Length 313;  
Best Local Similarity 75.0%; Pred. No. 48;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LPDLCTEL 9  
|||:|  
Db 97 LPDLCTEL 104

RESULT 20  
US-11-072-512-3428

; Sequence 3428, Application US/11072512

; Publication No. US20060029945A1

; GENERAL INFORMATION:

; APPLICANT: ISOGAI, TAKAO

; APPLICANT: SUGIYAMA, TOMOYASU

; APPLICANT: OTSUKI, TETSUJI

; APPLICANT: WAKAMATSU, AI

; APPLICANT: SATO, HIROYUKI

; APPLICANT: ISHII, SHIZUKO

; APPLICANT: YAMAMOTO, JUN-ICHI

; APPLICANT: ISONO, YUUKO

; APPLICANT: HIO, YURI

; APPLICANT: OTSUKA, KAORU

; APPLICANT: NAGAI, KEIICHI

; APPLICANT: IRIE, RYOTARO

; APPLICANT: TAMECHIKA, ICHIRO

; APPLICANT: SEKI, NAOHITO

; APPLICANT: YOSHIKAWA, TSUTOMU

; APPLICANT: OTSUKA, MOTOTYUKI

; APPLICANT: NAGAHARA, KENJI

; APPLICANT: MASUHO, YASUHIKO

; TITLE OF INVENTION: Novel full length cDNA

; FILE REFERENCE: 08435-0191

; CURRENT APPLICATION NUMBER: US/11/072,512

; CURRENT FILING DATE: 2005-03-07

; PRIOR FILING DATE: 2002-01-25

; PRIOR APPLICATION NUMBER: JP 2001-379298

; PRIOR FILING DATE: 2001-11-05

; NUMBER OF SEQ ID NOS: 4096

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 3428

; LENGTH: 326

; TYPE: PRT

; ORGANISM: Homo sapiens

US-11-072-512-3428

Query Match 69.4%; Score 34; DB 11; Length 326;  
Best Local Similarity 77.8%; Pred. No. 49;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
|||:|  
Db 124 KLPDLCTEL 132

RESULT 21

US-11-079-463-8862

; Sequence 8862, Application US/11079463

; Publication No. US20060073161A1

; GENERAL INFORMATION:

; APPLICANT: Gary L. Breton

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FR

; FILE REFERENCE: PATH00-03DIV2

; CURRENT APPLICATION NUMBER: US/11/079,463

; CURRENT FILING DATE: 2005-03-14

; PRIOR FILING DATE: 1999-04-09

; PRIOR APPLICATION NUMBER: US 09/540,209

; PRIOR FILING DATE: 2000-04-04

; NUMBER OF SEQ ID NOS: 10444

; SEQ ID NO 8862

; LENGTH: 470

; TYPE: PRT

; ORGANISM: B. fragilis

US-11-079-463-8862

Query Match 69.4%; Score 34; DB 11; Length 470;  
Best Local Similarity 85.7%; Pred. No. 70;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LPDLCTE 8  
|||:|  
Db 292 LPDLCTE 298

RESULT 22  
US-10-530-253-25

```
; Sequence 25, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. McElhinney
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 25
; LENGTH: 160
; TYPE: PRT
; ORGANISM: Human papillomavirus type 59
US-10-530-253-25
```

```
Query Match 67.3%; Score 33; DB 9; Length 160;
Best Local Similarity 77.8%; Pred. No. 38;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
Qy 1 LPPDLCTEL 9
Db 13 KLPDLSTTL 21
```

```
RESULT 23
US-11-188-298-4065
; Sequence 4065, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 4065
; LENGTH: 175
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(175)
; OTHER INFORMATION: unsure at all Xaa locations
US-11-188-298-4065
```

```
Query Match 67.3%; Score 33; DB 11; Length 175;
Best Local Similarity 85.7%; Pred. No. 42;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 2 LPPDLCTE 8
Db 65 LPPDLCTE 71
```

```
RESULT 24
US-11-079-463-9899
; Sequence 9899, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FR
; FILE REFERENCE: PATH00-03DIV2
```

```
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 9899
; LENGTH: 243
; TYPE: PRT
; ORGANISM: B. fragilis
US-11-079-463-9899
```

```
Query Match 67.3%; Score 33; DB 11; Length 243;
Best Local Similarity 71.4%; Pred. No. 58;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 2 LPPDLCTE 8
Db 144 VPPDLCTE 150
```

```
RESULT 25
US-11-079-463-8578
; Sequence 8578, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FR
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 8578
; LENGTH: 274
; TYPE: PRT
; ORGANISM: B. fragilis
US-11-079-463-8578
```

```
Query Match 67.3%; Score 33; DB 11; Length 274;
Best Local Similarity 75.0%; Pred. No. 65;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 2 LPPDLCTEL 9
Db 35 LPPDLCTDL 42
```

```
RESULT 26
US-11-072-512-3188
; Sequence 3188, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
```

```
; APPLICANT: OTSUKA, MOTOTYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIRO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3188
; LENGTH: 384
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-3188

Query Match      67.3%; Score 33; DB 11; Length 384;
Best Local Similarity 75.0%; Pred. No. 90;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      2 1LPDLCTEL 9
Db      348 LPDLCTSL 355

RESULT 27
US-11-188-298-17317
; Sequence 17317, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Adad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,238
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 17317
; LENGTH: 394
; TYPE: PRT
; ORGANISM: Zea mays
US-11-188-298-17317

Query Match      67.3%; Score 33; DB 11; Length 394;
Best Local Similarity 62.5%; Pred. No. 92;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTE 8
Db      326 KLPDLCTSD 333

RESULT 28
US-11-230-321-2
; Sequence 2, Application US/11230321
; Publication No. US20060068485A1
; GENERAL INFORMATION:
; APPLICANT: Hu, Yi
; APPLICANT: Nepomnichy, Boris
; TITLE OF INVENTION: Novel Human Synaptocagmin and Polynucleotides Encoding
; FILE REFERENCE: LEX-0320-USA
; CURRENT APPLICATION NUMBER: US/11/230,321
; CURRENT FILING DATE: 2005-09-19
; PRIOR APPLICATION NUMBER: US/10/094,162
; PRIOR FILING DATE: 2002-03-06
; PRIOR APPLICATION NUMBER: US 60/276,594
; PRIOR FILING DATE: 2001-03-16
; NUMBER OF SEQ ID NOS: 3

; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 419
; TYPE: PRT
; ORGANISM: homo sapiens
US-11-230-321-2

Query Match      67.3%; Score 33; DB 11; Length 419;
Best Local Similarity 66.7%; Pred. No. 98;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 KLPDLCTEL 9
Db      270 KLDICTSL 278

RESULT 29
US-11-079-463-6587
; Sequence 6587, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRA
; FILE REFERENCE: PAT00-03D1V2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 6587
; LENGTH: 457
; TYPE: PRT
; ORGANISM: B. fragilis
US-11-079-463-6587

Query Match      67.3%; Score 33; DB 11; Length 457;
Best Local Similarity 85.7%; Pred. No. 11e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCT 7
Db      280 KLPDLCT 286

RESULT 30
US-11-096-568A-1994
; Sequence 1994, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 1994
; LENGTH: 565
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc. feature
; LOCATION: (1)..(565)
; OTHER INFORMATION: Ceres Seq. ID no. 15180389
US-11-096-568A-1994

Query Match      67.3%; Score 33; DB 11; Length 565;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

Qy 4 DLCTEL 9  
|||||  
Db 183 DLCTEL 188

RESULT 31  
US-11-096-568A-27236  
; Sequence 27236, Application US/11096568A  
; Publication No. US20060048240A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexandrov, Nikolai et al.  
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
; FILE REFERENCE: 2750-1592PUS2  
; CURRENT FILING DATE: 2005-04-01  
; CURRENT APPLICATION NUMBER: US/11/096,568A  
; NUMBER OF SEQ ID NOS: 34471  
; SEQ ID NO 27236  
; LENGTH: 565  
; TYPE: PRT  
; ORGANISM: Zea mays subsp. mays  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(565)  
; OTHER INFORMATION: Ceres Seq. ID no. 15180389  
US-11-096-568A-27236

Query Match 67.3%; Score 33; DB 11; Length 565;  
Best Local Similarity 100.0%; Pred. No. 1.4e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 DLCTEL 9  
|||||  
Db 183 DLCTEL 188

RESULT 32  
US-11-096-568A-1993  
; Sequence 1993, Application US/11096568A  
; Publication No. US20060048240A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexandrov, Nikolai et al.  
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
; FILE REFERENCE: 2750-1592PUS2  
; CURRENT APPLICATION NUMBER: US/11/096,568A  
; CURRENT FILING DATE: 2005-04-01  
; NUMBER OF SEQ ID NOS: 34471  
; SEQ ID NO 1993  
; LENGTH: 624  
; TYPE: PRT  
; ORGANISM: Zea mays subsp. mays  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(624)  
; OTHER INFORMATION: Ceres Seq. ID no. 15180388  
US-11-096-568A-1993

Query Match 67.3%; Score 33; DB 11; Length 624;  
Best Local Similarity 100.0%; Pred. No. 1.4e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 DLCTEL 9  
|||||  
Db 242 DLCTEL 247

RESULT 33  
US-11-096-568A-27235  
; Sequence 27235, Application US/11096568A  
; Publication No. US20060048240A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexandrov, Nikolai et al.

; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
; FILE REFERENCE: 2750-1592PUS2  
; CURRENT APPLICATION NUMBER: US/11/096,568A  
; CURRENT FILING DATE: 2005-04-01  
; NUMBER OF SEQ ID NOS: 34471  
; SEQ ID NO 27235  
; LENGTH: 624  
; TYPE: PRT  
; ORGANISM: Zea mays subsp. mays  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(624)  
; OTHER INFORMATION: Ceres Seq. ID no. 15180388  
US-11-096-568A-27235

Query Match 67.3%; Score 33; DB 11; Length 624;  
Best Local Similarity 100.0%; Pred. No. 1.4e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 DLCTEL 9  
|||||  
Db 242 DLCTEL 247

RESULT 34  
US-11-096-568A-1992  
; Sequence 1992, Application US/11096568A  
; Publication No. US20060048240A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexandrov, Nikolai et al.  
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
; FILE REFERENCE: 2750-1592PUS2  
; CURRENT APPLICATION NUMBER: US/11/096,568A  
; CURRENT FILING DATE: 2005-04-01  
; NUMBER OF SEQ ID NOS: 34471  
; SEQ ID NO 1992  
; LENGTH: 625  
; TYPE: PRT  
; ORGANISM: Zea mays subsp. mays  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(625)  
; OTHER INFORMATION: Ceres Seq. ID no. 15180387  
US-11-096-568A-1992

Query Match 67.3%; Score 33; DB 11; Length 625;  
Best Local Similarity 100.0%; Pred. No. 1.4e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 DLCTEL 9  
|||||  
Db 243 DLCTEL 248

RESULT 35  
US-11-096-568A-27234  
; Sequence 27234, Application US/11096568A  
; Publication No. US20060048240A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexandrov, Nikolai et al.  
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
; FILE REFERENCE: 2750-1592PUS2  
; CURRENT APPLICATION NUMBER: US/11/096,568A  
; CURRENT FILING DATE: 2005-04-01  
; NUMBER OF SEQ ID NOS: 34471  
; SEQ ID NO 27234  
; LENGTH: 625  
; TYPE: PRT  
; ORGANISM: Zea mays subsp. mays  
; FEATURE:

```

; NAME/KEY: misc.feature
; LOCATION: (1)..(625)
; OTHER INFORMATION: Ceres Seq. ID no. 15180387
US-11-096-568A-27234

```

```

Query Match
Best Local Similarity 67.3%; Score 33; DB 11; Length 625;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy 4 DLDTCL 9
Db 243 DLDTCL 248

```

```

RESULT 36
US-11-079-463-7773
; Sequence 7773, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:

```

```

; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRA
; FILE REFERENCE: PAT00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463

```

```

; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09

```

```

; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444

```

```

; SEQ ID NO 7773
; LENGTH: 679
; TYPE: PRT

```

```

; ORGANISM: B.fragilis
US-11-079-463-7773

```

```

Query Match
Best Local Similarity 67.3%; Score 33; DB 11; Length 679;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

Qy 2 LPDLCTE 9
Db 159 LPDLCTE 166

```

```

RESULT 37
US-11-087-099-969
; Sequence 969, Application US/11087099
; Publication No. US20060041961A1

```

```

; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement

```

```

; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22

```

```

; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 969
; LENGTH: 801

```

```

; TYPE: PRT
; ORGANISM: Neurospora crassa
US-11-087-099-969

```

```

Query Match
Best Local Similarity 67.3%; Score 33; DB 11; Length 801;
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy 2 LPDLCTE 8
Db 616 LPDLCTE 622

```

```

RESULT 38
US-10-530-253-18

```

```

; Sequence 18, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:

```

```

; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen

```

```

; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/1004137-US2

```

```

; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726

```

```

; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03

```

```

; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; LENGTH: 149

```

```

; TYPE: PRT
; ORGANISM: Human papillomavirus type 35
US-10-530-253-18

```

```

Query Match
Best Local Similarity 65.3%; Score 32; DB 9; Length 149;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

Qy 1 KLPLDTCL 9
Db 11 KLPLDTCL 19

```

```

RESULT 39
US-11-087-099-4414
; Sequence 4414, Application US/11087099
; Publication No. US20060041961A1

```

```

; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement

```

```

; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22

```

```

; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 4414
; LENGTH: 340

```

```

; TYPE: PRT
; ORGANISM: Boea crassifolia
US-11-087-099-4414

```

```

Query Match
Best Local Similarity 65.3%; Score 32; DB 11; Length 340;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

Qy 2 LPDLCTE 8
Db 210 LPDLCTE 216

```

```

RESULT 40
US-11-188-298-15084
; Sequence 15084, Application US/11188298
; Publication No. US20060075522A1

```

```

; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT

```

```

; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22

```

```

; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569

```

```

; SEQ ID NO 15084
; LENGTH: 340

```



```
; TYPE: PRT
; ORGANISM: Boga crassifolia
US-11-188-298-15084

Query Match      65.3%; Score 32; DB 11; Length 340;
Best Local Similarity 71.4%; Pred. No. 1.2e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 LKPLDCTE 8
Db      210 LKPLDCTE 216

RESULT 41
US-10-288-733-2
; Sequence 2, Application US/10288733
; Publication No. US2006005360A1
; GENERAL INFORMATION:
; APPLICANT: KIM, Jin-Woo
; TITLE OF INVENTION: HUMAN CERVICAL CANCER 1 PROTOONCOGENE AND PROTEIN ENCODED THEREIN
; FILE REFERENCE: KIM
; CURRENT APPLICATION NUMBER: US/10/288, 733
; CURRENT FILING DATE: 2002-11-05/868, 474
; PRIOR APPLICATION NUMBER: US/09/868, 474
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: KR 1999-44811
; PRIOR FILING DATE: 1999-10-15
; PRIOR APPLICATION NUMBER: PCT/KR00/00284
; PRIOR FILING DATE: 2000-03-30
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 360
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (435)..(494)
; OTHER INFORMATION: transmembrane domain
US-10-288-733-2

Query Match      65.3%; Score 32; DB 9; Length 360;
Best Local Similarity 55.6%; Pred. No. 1.3e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTEL 9
Db      213 RLTDLCTKI 221

RESULT 42
US-10-506-454-713
; Sequence 713, Application US/10506454
; Publication No. US20060068386A1
; GENERAL INFORMATION:
; APPLICANT: Slesarev, Alexi I
; APPLICANT: Mezhevaeva, Katja V
; APPLICANT: Polushin, Nikolai N
; APPLICANT: Shakhova, Olga V
; APPLICANT: Shakhova, Vera V
; APPLICANT: Malykh, Andrei G
; APPLICANT: Kozavkin, Sergei A
; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile
; TITLE OF INVENTION: Methanopyrus kandleri AV19 and Monophyly of Archaeal Methanogens
; FILE REFERENCE: FID001
; CURRENT APPLICATION NUMBER: US/10/506, 454
; CURRENT FILING DATE: 2004-08-31
; PRIOR APPLICATION NUMBER: PCT/US03/06664
; PRIOR FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: 60/361, 742
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1722
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; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 713
; LENGTH: 376
; TYPE: PRT
; ORGANISM: Methanopyrus kandleri
US-10-506-454-713

Query Match      65.3%; Score 32; DB 9; Length 376;
Best Local Similarity 55.6%; Pred. No. 1.4e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      1 KLPDLCTEL 9
Db      16 RAPDVCREL 24

RESULT 43
US-11-188-298-926
; Sequence 926, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188, 298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592, 978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 926
; LENGTH: 394
; TYPE: PRT
; ORGANISM: Zea mays
US-11-188-298-926

Query Match      65.3%; Score 32; DB 11; Length 394;
Best Local Similarity 62.5%; Pred. No. 1.4e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTE 8
Db      326 KLPDSCSD 333

RESULT 44
US-11-188-298-1319
; Sequence 1319, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188, 298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592, 978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 1319
; LENGTH: 394
; TYPE: PRT
; ORGANISM: Zea mays
US-11-188-298-1319

Query Match      65.3%; Score 32; DB 11; Length 394;
Best Local Similarity 62.5%; Pred. No. 1.4e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTE 8
Db      326 KLPDSCSD 333

RESULT 45
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US-11-188-298-15528
; Sequence 15528, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 15528
; LENGTH: 394
; TYPE: PRT
; ORGANISM: Zea mays
US-11-188-298-15528

Query Match
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Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 KLPDLCTE 8
Db 326 KLPDSCSD 333

RESULT 46
US-11-103-957-61
; Sequence 61, Application US/11103957
; Publication No. US20050281847A1
; GENERAL INFORMATION:
; APPLICANT: Berthet, Francois-Xavier Jacques
; APPLICANT: Lobet, Yves
; APPLICANT: Poolman, Jan
; APPLICANT: Verlant, Vincent Georges Christian Louis
; TITLE OF INVENTION: Vaccine Composition
; FILE REFERENCE: B45261
; CURRENT APPLICATION NUMBER: US/11/103,957
; CURRENT FILING DATE: 2005-04-12
; PRIOR APPLICATION NUMBER: US/10/467,534
; PRIOR FILING DATE: 2004-02-03
; PRIOR APPLICATION NUMBER: PCT/EP02/01356
; PRIOR FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: GB 0103169.9
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 61
; LENGTH: 553
; TYPE: PRT
; ORGANISM: Chlamydia trachomatis
US-11-103-957-61

Query Match
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Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 KLPDLCTE 9
Db 12 KTFSLCREL 20

RESULT 47
US-11-184-380-26
; Sequence 26, Application US/11184380
; Publication No. US20050255089A1
; GENERAL INFORMATION:
; APPLICANT: Chiorini, John
; APPLICANT: Kolin, Robert M.
; TITLE OF INVENTION: AAVS NUCLEIC ACIDS
; FILE REFERENCE: 14014.0323U3
; CURRENT APPLICATION NUMBER: US/11/184,380
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; CURRENT FILING DATE: 2005-07-19
; PRIOR APPLICATION NUMBER: PCT/US99/11958
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/087,029
; PRIOR FILING DATE: 1998-05-28
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 621
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence; Note =
US-11-184-380-26

Query Match
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Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KLPDLCT 7
Db 599 KVPDACT 605

RESULT 48
US-10-793-626-1258
; Sequence 1258, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMBERLY, WILLIAM JOHN
; TITLE OF INVENTION: STRAPHLOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: Patentn Ver. 2.1
; SEQ ID NO 1258
; LENGTH: 664
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
US-10-793-626-1258

Query Match
Best Local Similarity 65.3%; Score 32; DB 9; Length 664;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 KLPDLCTE 9
Db 341 KMSNCTEI 349

RESULT 49
US-11-079-463-6039
; Sequence 6039, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRD
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
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; SEQ ID NO 6039  
; LENGTH: 686  
; TYPE: PRT  
; ORGANISM: B.fragilis  
US-11-079-463-6039

Query Match 65.3%; Score 32; DB 11; Length 686;  
Best Local Similarity 55.6%; Pred. No. 2.4e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
Db 64 QLPVCEEL 72

RESULT 50  
US-10-467-962B-63  
; Sequence 63, Application US/10467962B  
; Publication No. US20050246784A1  
; GENERAL INFORMATION:  
; APPLICANT: Pleesch, Gunnar  
; APPLICANT: Blau, Astrid  
; APPLICANT: Daeschner, Klaus  
; APPLICANT: Klein, Mathieu  
; TITLE OF INVENTION: Identification of Herbicidally Active Substances  
; FILE REFERENCE: 2000 857  
; CURRENT APPLICATION NUMBER: US/10/467, 962B  
; CURRENT FILING DATE: 2003-08-14  
; PRIOR APPLICATION NUMBER: PCT/EP02/01466  
; PRIOR FILING DATE: 2002-02-13  
; NUMBER OF SEQ ID NOS: 109  
; SOFTWARE: PatentIn Vers. 2.0  
; SEQ ID NO 63  
; LENGTH: 754  
; TYPE: PRT  
; ORGANISM: Arabidopsis thaliana  
US-10-467-962B-63

Query Match 65.3%; Score 32; DB 9; Length 754;  
Best Local Similarity 83.3%; Pred. No. 2.7e+02;  
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 LPDLCT 7  
Db 397 LPDVCT 402

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OM protein - protein search, using SW model

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Maximum Match 100%  
Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a  
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and is derived by analysis of the total score distribution.

#### SUMMARIES

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2	46	100.0	32	2	US-08-466-285-2
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4	46	100.0	158	1	US-08-247-904B-10
5	46	100.0	158	2	US-08-767-942A-19
6	46	100.0	271	1	US-08-117-083-14
7	46	100.0	278	1	US-09-485-885-21
8	46	100.0	383	2	US-09-485-885-23
9	42	91.3	10	2	US-08-159-339A-86
10	38	82.6	509	2	US-08-809-999D-17
11	38	82.6	509	2	US-09-069-637-17
12	38	82.6	509	2	US-09-322-360-17
13	38	82.6	509	2	US-09-131-831B-17
14	38	82.6	509	2	US-09-949-016-11233
15	36	78.3	127	2	US-09-253-991A-28397
16	35	76.1	724	2	US-09-248-796A-19040
17	34	73.9	519	2	US-09-720-655B-1
18	34	73.9	520	2	US-08-964-127-2
19	34	73.9	520	2	US-09-496-692-2
20	34	73.9	520	2	US-10-000-270-2
21	34	73.9	3135	1	US-08-323-170B-2
22	34	73.9	3135	2	US-08-954-441-2
23	33	71.7	286	2	US-09-328-352-7626
24	33	71.7	839	2	US-09-949-016-10846
25	33	71.7	873	1	US-08-912-129A-61
26	33	71.7	873	1	US-08-911-824-61
27	32	69.6	53	2	US-09-270-767-61394

28	32	69.6	303	2	US-09-270-767-45862	Sequence 45862, A
29	32	69.6	402	2	US-09-270-767-46012	Sequence 46012, A
30	32	69.6	873	2	US-09-543-681A-6827	Sequence 6827, Ap
31	31	67.4	123	2	US-09-543-681A-4522	Sequence 4522, Ap
32	31	67.4	205	2	US-09-489-039A-8230	Sequence 8230, Ap
33	31	67.4	126	2	US-09-134-001C-4766	Sequence 4766, Ap
34	31	67.4	369	2	US-09-519-232-74	Sequence 74, Appl
35	31	67.4	592	2	US-09-248-796A-17389	Sequence 17389, A
36	31	67.4	733	2	US-09-270-767-41626	Sequence 41626, A
37	31	67.4	826	2	US-09-248-796A-14387	Sequence 14387, A
38	31	67.4	852	2	US-09-585-858-19	Sequence 19, Appl
39	31	67.4	852	2	US-10-270-878-19	Sequence 19, Appl
40	31	67.4	1194	1	US-08-680-326-35	Sequence 35, Appl
41	31	67.4	4968	2	US-09-424-783-5	Sequence 5, Appl
42	30	65.2	10	2	US-09-051-529-1	Sequence 1, Appl
43	30	65.2	281	2	US-09-949-016-6831	Sequence 6831, Ap
44	30	65.2	322	2	US-08-964-127-6	Sequence 6, Appl
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47	30	65.2	324	2	US-09-949-016-7870	Sequence 7870, Ap
48	30	65.2	324	1	US-08-624-545-1	Sequence 1, Appl
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50	30	65.2	344	2	US-09-024-532-4	Sequence 4, Appl
51	30	65.2	344	2	US-07-792-259-12	Sequence 12, Appl
52	30	65.2	345	1	US-09-874-132-24	Sequence 24, Appl
53	30	65.2	352	2	US-09-103-331-38	Sequence 38, Appl
54	30	65.2	352	2	US-09-631-594-47	Sequence 47, Appl
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56	30	65.2	354	1	US-07-792-259-17	Sequence 17, Appl
57	30	65.2	435	1	US-08-331-815A-2	Sequence 2, Appl
58	30	65.2	435	1	US-09-168-406A-2	Sequence 2, Appl
59	30	65.2	435	2	US-09-949-016-6949	Sequence 6949, Ap
60	30	65.2	445	2	US-09-949-016-11026	Sequence 11026, A
61	30	65.2	455	2	US-09-949-016-11026	Sequence 4, Appl
62	30	65.2	472	1	US-08-749-903-4	Sequence 5, Appl
63	30	65.2	472	1	US-08-749-903-5	Sequence 5, Appl
64	30	65.2	472	1	US-09-088-641-4	Sequence 4, Appl
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66	30	65.2	484	2	US-09-134-001C-5402	Sequence 5402, Ap
67	30	65.2	544	2	US-09-383-586-36	Sequence 36, Appl
68	30	65.2	574	2	US-09-823-038A-36	Sequence 36, Appl
69	30	65.2	574	2	US-09-943-075A-5	Sequence 5, Appl
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71	30	65.2	887	1	US-07-934-374-2	Sequence 2, Appl
72	30	65.2	887	1	US-07-783-61C-4	Sequence 4, Appl
73	30	65.2	934	2	US-09-949-002-289	Sequence 289, App
74	30	65.2	981	2	US-09-949-002-513	Sequence 513, App
75	30	65.2	1210	2	US-10-771-708-10	Sequence 10, Appl
76	30	65.2	25	2	US-09-084-103B-296	Sequence 296, App
77	29	63.0	68	2	US-09-445-480D-22	Sequence 22, Appl
78	29	63.0	76	2	US-09-270-767-58987	Sequence 58987, A
79	29	63.0	76	2	US-09-084-103B-202	Sequence 202, App
80	29	63.0	84	2	US-09-248-796A-27164	Sequence 27164, A
81	29	63.0	117	2	US-09-902-540-13798	Sequence 13798, A
82	29	63.0	120	2	US-08-728-742A-1	Sequence 1, Appl
83	29	63.0	134	2	US-09-328-352-6876	Sequence 6876, Ap
84	29	63.0	143	2	US-09-270-767-41419	Sequence 34149, A
85	29	63.0	143	2	US-09-270-767-49366	Sequence 49366, A
86	29	63.0	146	2	US-09-270-767-40291	Sequence 40291, A
87	29	63.0	146	2	US-09-605-703B-1180	Sequence 1180, Ap
88	29	63.0	146	2	US-09-270-767-55507	Sequence 55507, A
89	29	63.0	175	2	US-09-270-767-39739	Sequence 39739, A
90	29	63.0	175	2	US-09-270-767-54956	Sequence 54956, A
91	29	63.0	249	2	US-09-248-796A-23563	Sequence 23563, A
92	29	63.0	256	2	US-09-248-796A-18537	Sequence 18537, A
93	29	63.0	257	2	US-09-270-767-43610	Sequence 43610, A
94	29	63.0	265	2	US-08-413-805-2	Sequence 2, Appl
95	29	63.0	267	2	US-09-134-000C-3885	Sequence 3885, Ap
96	29	63.0	292	2	US-09-240-816B-2	Sequence 2, Appl
97	29	63.0	292	2	US-09-583-110-3960	Sequence 3960, Ap
98	29	63.0	293	2	US-09-248-796A-18536	Sequence 18536, A
99	29	63.0	295	2	US-09-107-433-4794	Sequence 4794, Ap
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539	26	56.5	144	2	US-09-312-283C-365	Sequence 385, App	612	26	56.5	338	2	US-09-461-325-194	Sequence 194, App
540	26	56.5	180	2	US-09-328-352-4511	Sequence 4511, App	613	26	56.5	338	2	US-10-012-542-194	Sequence 194, App
541	26	56.5	181	2	US-09-902-540-12796	Sequence 12796, A	614	26	56.5	338	2	US-10-115-123-194	Sequence 194, App
542	26	56.5	181	4	PCT-US93-07805-1	Sequence 1, Appl	615	26	56.5	339	1	US-08-892-880-3	Sequence 3, Appl
543	26	56.5	184	2	US-09-270-767-43100	Sequence 43100, A	616	26	56.5	342	2	US-09-543-681A-4402	Sequence 4402, App
544	26	56.5	186	2	US-09-543-681A-7556	Sequence 7556, App	617	26	56.5	346	2	US-09-248-796A-18974	Sequence 18974, A
545	26	56.5	187	2	US-09-973-857-4	Sequence 4, Appl	618	26	56.5	351	2	US-09-198-452A-991	Sequence 991, App
546	26	56.5	187	2	US-10-074-527-4	Sequence 4, Appl	619	26	56.5	351	2	US-09-328-352-6156	Sequence 6156, App
547	26	56.5	190	2	US-10-781-294-63	Sequence 63, Appl	620	26	56.5	352	2	US-09-438-188A-921	Sequence 921, App
548	26	56.5	202	2	US-09-248-796A-24874	Sequence 24874, A	621	26	56.5	356	1	US-08-427-640-8	Sequence 8, Appl
549	26	56.5	202	2	US-09-605-703B-1088	Sequence 1088, App	622	26	56.5	361	1	US-07-946-497-6	Sequence 6, Appl
550	26	56.5	212	2	US-09-270-767-31900	Sequence 31900, A	623	26	56.5	361	1	US-08-483-323-6	Sequence 6, Appl
551	26	56.5	222	2	US-09-270-767-47117	Sequence 47117, A	624	26	56.5	361	1	US-08-478-882-6	Sequence 6, Appl
552	26	56.5	224	2	US-09-902-540-10058	Sequence 10058, A	625	26	56.5	361	2	US-09-949-016-5968	Sequence 5968, App
553	26	56.5	233	2	US-09-485-737B-69	Sequence 69, Appl	626	26	56.5	362	6	5504194-2	Patent No. 5504194
554	26	56.5	233	2	US-10-071-485-69	Sequence 69, Appl	627	26	56.5	363	2	US-09-328-352-7018	Sequence 7018, App
555	26	56.5	234	2	US-09-252-991A-30807	Sequence 30807, A	628	26	56.5	364	2	US-09-949-016-7943	Sequence 7943, App
556	26	56.5	236	2	US-09-827-688-2	Sequence 2, Appl	629	26	56.5	368	2	US-09-538-092-1226	Sequence 1226, App
557	26	56.5	240	2	US-09-583-110-3479	Sequence 3479, App	630	26	56.5	375	2	US-09-949-016-10691	Sequence 10691, A
558	26	56.5	241	2	US-09-915-789A-11	Sequence 11, Appl	631	26	56.5	376	2	US-09-854-133-188	Sequence 188, App
559	26	56.5	245	2	US-09-906-769-121	Sequence 121, App	632	26	56.5	385	2	US-09-248-796A-18692	Sequence 18692, A
560	26	56.5	245	2	US-08-906-616-121	Sequence 121, App	633	26	56.5	390	2	US-10-094-944-13	Sequence 13, Appl
561	26	56.5	245	2	US-08-639-075A-121	Sequence 121, App	634	26	56.5	391	2	US-09-543-681A-8089	Sequence 8089, App
562	26	56.5	245	2	US-09-012-431-121	Sequence 121, App	635	26	56.5	398	1	US-08-446-777-2	Sequence 2, Appl
563	26	56.5	245	2	US-09-012-592-121	Sequence 121, App	636	26	56.5	400	2	US-09-118-464-4	Sequence 4, Appl
564	26	56.5	245	2	US-08-906-613-121	Sequence 121, App	637	26	56.5	400	2	US-10-132-652A-4	Sequence 6156, App
565	26	56.5	245	2	US-09-543-681A-5699	Sequence 5699, App	638	26	56.5	407	2	US-09-949-016-6136	Sequence 10645, A
566	26	56.5	253	2	US-09-270-767-41091	Sequence 41091, A	640	26	56.5	413	2	US-09-949-016-10645	Sequence 3514, App
567	26	56.5	253	2	US-09-270-767-56307	Sequence 56307, A	641	26	56.5	419	2	US-10-104-047-3514	Sequence 202, App
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569	26	56.5	267	2	US-09-348-352-6820	Sequence 6820, App	643	26	56.5	423	2	US-09-181-339-9	Sequence 2042, App
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589	26	56.5	306	2	US-09-160-975A-2	Sequence 2, Appl	663	26	56.5	491	2	US-09-667-135-28	Sequence 28, Appl
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591	26	56.5	307	2	US-09-556-972-25	Sequence 25, Appl	665	26	56.5	491	2	US-09-262-856A-5	Sequence 5, Appl
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597	26	56.5	311	2	US-09-621-011-191	Sequence 191, App	671	26	56.5	497	2	US-08-117-083-70	Sequence 70, Appl
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712	26	56.5	536	2	US-08-432-545-12	Sequence 12, Appl	785	26	56.5	691	1	US-08-405-648A-2	Sequence 2, Appl1
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736	26	56.5	560	5	US-09-985-799-90	Sequence 90, Appl	809	26	56.5	794	1	US-08-745-880-4	Sequence 4, Appl1
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743	26	56.5	589	1	US-07-668-648-2	Sequence 2, Appl1	816	26	56.5	794	2	US-10-133-910-2	Sequence 2, Appl1
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745	26	56.5	589	1	US-08-431-333-2	Sequence 2, Appl1	818	26	56.5	801	2	US-09-543-661A-7561	Sequence 7561, Ap
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752	26	56.5	617	2	US-08-679-493A-77	Sequence 77, Appl	825	26	56.5	839	2	US-08-472-240A-10	Sequence 10, Appl
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836	26	56.5	863	2	US-08-463-209-11	Sequence 11, Appl	909	25	54.3	55	2	US-09-270-767-52322	Sequence 15, Appl
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839	26	56.5	880	1	US-09-157-963-7	Sequence 7, Appl	912	25	54.3	64	2	US-08-352-9020-114	Sequence 124, App
840	26	56.5	880	2	US-09-568-105-7	Sequence 7, Appl	913	25	54.3	64	2	US-08-352-9020-125	Sequence 125, App
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852	26	56.5	1035	2	US-10-781-294-24	Sequence 24, Appl	925	25	54.3	71	2	US-09-657-279-555	Sequence 555, App
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854	26	56.5	1083	2	US-09-538-092-812	Sequence 812, App	927	25	54.3	79	2	US-09-270-767-31713	Sequence 31713, A
855	26	56.5	1167	2	US-10-803-671B-2	Sequence 2, Appl	928	25	54.3	80	2	US-09-248-796A-25415	Sequence 25415, A
856	26	56.5	1167	2	US-10-274-409-2	Sequence 2, Appl	929	25	54.3	83	2	US-08-905-223-458	Sequence 458, App
857	26	56.5	1176	2	US-09-489-039A-8879	Sequence 8879, Ap	930	25	54.3	83	2	US-09-270-767-62289	Sequence 62269, A
858	26	56.5	1233	2	US-09-252-991A-23237	Sequence 23237, A	931	25	54.3	83	2	US-09-513-999C-4553	Sequence 4553, Ap
859	26	56.5	1242	1	US-08-660-326-33	Sequence 33, Appl	932	25	54.3	83	2	US-09-471-276-1470	Sequence 1470, Ap
860	26	56.5	1242	2	US-09-904-065-12	Sequence 12, Appl	933	25	54.3	83	2	US-09-134-001C-4924	Sequence 4924, Ap
861	26	56.5	1242	2	US-09-904-065-13	Sequence 13, Appl	934	25	54.3	85	2	US-09-107-532A-5391	Sequence 5391, Ap
862	26	56.5	1248	2	US-10-042-810-2	Sequence 2, Appl	935	25	54.3	85	2	US-09-248-796A-16730	Sequence 16730, A
863	26	56.5	1278	2	US-09-462-136-2	Sequence 2, Appl	936	25	54.3	90	2	US-09-858-664A-12	Sequence 12, Appl
864	26	56.5	1278	2	US-10-042-810-4	Sequence 4, Appl	937	25	54.3	90	2	US-10-274-978-13	Sequence 13, Appl
865	26	56.5	1279	2	US-09-710-279-3188	Sequence 3188, App	938	25	54.3	90	2	US-09-148-545-167	Sequence 167, App
866	26	56.5	1318	2	US-09-949-016-10152	Sequence 10152, A	939	25	54.3	93	2	US-09-621-011-167	Sequence 167, App
867	26	56.5	1319	2	US-09-462-136-4	Sequence 4, Appl	940	25	54.3	93	2	US-09-148-545-167	Sequence 167, App
868	26	56.5	1319	2	US-09-578-063-14	Sequence 14, Appl	941	25	54.3	93	2	US-09-621-011-167	Sequence 167, App
869	26	56.5	1323	2	US-09-949-016-6553	Sequence 6553, Ap	942	25	54.3	94	2	US-09-148-545-228	Sequence 229, App
870	26	56.5	1333	1	US-08-447-411-76	Sequence 76, Appl	943	25	54.3	94	2	US-09-621-011-228	Sequence 228, App
871	26	56.5	1333	1	US-08-662-227-34	Sequence 34, Appl	944	25	54.3	94	2	US-09-621-011-228	Sequence 228, App
872	26	56.5	1333	1	US-09-017-947-34	Sequence 34, Appl	945	25	54.3	96	1	US-08-486-013-21	Sequence 21, Appl
873	26	56.5	1333	2	US-09-925-442-24	Sequence 34, Appl	946	25	54.3	96	1	US-08-482-379-21	Sequence 21, Appl
874	26	56.5	1338	2	US-09-631-603-2	Sequence 2, Appl	947	25	54.3	96	1	US-08-342-268-21	Sequence 21, Appl
875	26	56.5	1413	2	US-09-578-063-13	Sequence 13, Appl	948	25	54.3	96	1	US-09-015-668-21	Sequence 21, Appl
876	26	56.5	1435	2	US-09-949-016-9942	Sequence 9942, Ap	949	25	54.3	96	2	US-09-027-900-14	Sequence 14, Appl
877	26	56.5	1435	2	US-09-949-016-9943	Sequence 9943, Ap	950	25	54.3	96	2	US-09-397-386-21	Sequence 21, Appl
878	26	56.5	1435	2	US-09-949-016-9944	Sequence 9944, Ap	951	25	54.3	97	1	US-09-047-125-19	Sequence 19, Appl
879	26	56.5	1440	2	US-09-357-251-37	Sequence 37, Appl	952	25	54.3	97	1	US-08-665-202-45	Sequence 35, Appl
880	26	56.5	1453	2	US-09-578-063-11	Sequence 11, Appl	953	25	54.3	97	1	US-08-881-037-66	Sequence 66, Appl
881	26	56.5	1512	2	US-09-443-184-48	Sequence 48, Appl	954	25	54.3	97	2	US-07-736-335B-19	Sequence 19, Appl
882	26	56.5	1581	2	US-09-866-108A-15754	Sequence 15754, A	955	25	54.3	97	2	US-08-736-335B-19	Sequence 35, Appl
883	26	56.5	1695	2	US-09-866-108A-15753	Sequence 15753, A	956	25	54.3	98	1	US-08-752-844-5	Sequence 5, Appl
884	26	56.5	1785	2	US-09-341-587-3	Sequence 3, Appl	957	25	54.3	98	1	US-08-591-196-5	Sequence 5, Appl
885	26	56.5	1967	2	US-09-849-602-16	Sequence 16, Appl	958	25	54.3	98	2	US-08-293-533-5	Sequence 5, Appl
886	26	56.5	2465	1	US-08-596-291-3	Sequence 3, Appl	959	25	54.3	98	2	US-09-471-276-1070	Sequence 1070, Ap
887	26	56.5	2465	1	US-09-100-804-3	Sequence 3, Appl	960	25	54.3	100	1	US-08-467-822-23	Sequence 23, Appl
888	26	56.5	3696	2	US-09-134-001C-5080	Sequence 5080, Ap	961	25	54.3	100	1	US-08-432-627-33	Sequence 23, Appl
889	26	56.5	15281	1	US-08-471-119A-2	Sequence 2, Appl	962	25	54.3	100	2	US-08-466-248-23	Sequence 9, Appl
890	25	55.4	100	2	US-09-328-352-7014	Sequence 7014, Ap	963	25	54.3	101	2	US-09-034-916-9	Sequence 169, App
891	25	55.4	435	2	US-09-162-021B-12	Sequence 12, Appl	964	25	54.3	101	2	US-09-726-219A-168	Sequence 168, App
892	25	55.4	657	2	US-10-411-076-20	Sequence 20, Appl	965	25	54.3	101	2	US-09-136-532-168	Sequence 174, App
893	25	55.4	850	2	US-10-125-772-12	Sequence 12, Appl	966	25	54.3	101	2	US-09-726-219A-174	Sequence 174, App
894	25	55.4	850	2	US-10-125-772-8	Sequence 8, Appl	967	25	54.3	102	2	US-09-136-532-168	Sequence 174, App
895	25	55.4	941	2	US-10-125-772-10	Sequence 10, Appl	968	25	54.3	102	2	US-09-136-532-168	Sequence 174, App
896	25	55.4	941	2	US-10-125-772-10	Sequence 10, Appl	969	25	54.3	103	2	US-08-273-146-71	Sequence 71, Appl
897	25	55.3	21	1	US-08-934-915-67	Sequence 67, Appl	970	25	54.3	104	2	US-09-240-274-49	Sequence 49, Appl
898	25	55.3	21	1	US-09-563-222C-58	Sequence 98, Appl	971	25	54.3	104	2	US-08-793-450-2	Sequence 2, Appl
899	25	55.3	23	2	US-09-319-570A-2	Sequence 2, Appl	972	25	54.3	104	2	US-09-848-798-49	Sequence 49, Appl
900	25	54.3	25	2	US-09-929-955-36	Sequence 36, Appl	973	25	54.3	105	2	US-09-513-999C-5635	Sequence 5635, Ap
901	25	54.3	25	2	US-09-930-591-21	Sequence 21, Appl	974	25	54.3	105	2	US-09-513-999C-7886	Sequence 7886, Ap
902	25	54.3	30	2	US-09-563-222C-147	Sequence 147, App	975	25	54.3	106	2	US-09-240-274-47	Sequence 47, Appl
903	25	54.3	34	2	US-08-810-009-26	Sequence 26, Appl	976	25	54.3	106	2	US-09-240-274-48	Sequence 48, Appl

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978 25 54.3 106 2 US-09-848-798-48 Sequence 48, Appl  
979 25 54.3 107 1 US-08-122-546-12 Sequence 12, Appl  
980 25 54.3 107 1 US-07-942-245-14 Sequence 14, Appl  
981 25 54.3 107 1 US-08-764-938-12 Sequence 12, Appl  
982 25 54.3 107 2 US-09-131-052-12 Sequence 12, Appl  
983 25 54.3 107 2 US-09-131-053A-12 Sequence 12, Appl  
984 25 54.3 107 2 US-09-543-681A-6101 Sequence 6101, Ap  
985 25 54.3 108 2 US-09-720-493-4 Sequence 4, Appl  
986 25 54.3 109 1 US-08-652-816A-16 Sequence 16, Appl  
987 25 54.3 109 1 US-08-665-202-34 Sequence 34, Appl  
988 25 54.3 109 2 US-09-315-574-34 Sequence 34, Appl  
989 25 54.3 109 2 US-09-270-767-35801 Sequence 35801, A  
990 25 54.3 109 2 US-09-270-767-51018 Sequence 51018, A  
991 25 54.3 110 2 US-08-858-207A-273 Sequence 273, App  
992 25 54.3 111 1 US-08-467-420A-15 Sequence 15, Appl  
993 25 54.3 111 1 US-08-470-110A-15 Sequence 15, Appl  
994 25 54.3 111 1 US-08-940-371-15 Sequence 15, Appl  
995 25 54.3 111 2 US-08-637-647-15 Sequence 15, Appl  
996 25 54.3 111 2 US-08-849-303-26 Sequence 26, Appl  
997 25 54.3 111 2 US-09-203-768A-8 Sequence 8, Appl  
998 25 54.3 112 2 US-09-189-129-3 Sequence 3, Appl  
999 25 54.3 112 2 US-09-270-767-32178 Sequence 32178, A  
1000 25 54.3 112 2 US-09-270-767-47395 Sequence 47395, A

## ALIGNMENTS

RESULT 1  
US-08-159-339A-1176  
Sequence 1176, Application US/08159339A  
Patent No. 6037135  
GENERAL INFORMATION:  
APPLICANT: Kubo, Ralph T.  
APPLICANT: Grey, Howard M.  
APPLICANT: Sette, Alessandro  
APPLICANT: Celis, Esben  
TITLE OF INVENTION: HLA Binding peptides and their  
TITLE OF INVENTION: Uses  
NUMBER OF SEQUENCES: 1254  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/159,339A  
FILING DATE: 29-NOV-1993  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/926,666  
FILING DATE: 07-AUG-1992  
APPLICATION NUMBER: US 08/027,746  
FILING DATE: 05-MAR-1993  
APPLICATION NUMBER: US 08/103,396  
FILING DATE: 06-AUG-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Weber, Ellen Lawyer  
REGISTRATION NUMBER: 32,762  
REFERENCE/DOCKET NUMBER: 018623-005030US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
TELEX:  
INFORMATION FOR SEQ ID NO: 1176:

SEQUENCE CHARACTERISTICS:  
LENGTH: 15 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-159-339A-1176  
Query Match 100.0%; Score 46; DB 2; Length 15;  
Best Local Similarity 100.0%; Pred. No. 0.022;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 SIQDIETIC 9  
DB 3 SIQDIETIC 11  
RESULT 2  
US-08-466-285-2  
Sequence 2, Application US/08466285  
Patent No. 5753233  
GENERAL INFORMATION:  
APPLICANT: Bleul, Conrad  
APPLICANT: Giesmann, Inutz  
APPLICANT: Muller, Martin  
TITLE OF INVENTION: Seroreactive Epitopes On Proteins Of  
TITLE OF INVENTION: Human Papillomavirus (HPV)18  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &  
STREET: 1300 I Street, N.W., Suite 700  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20005-3315  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/466,285  
FILING DATE: 06-JUN-1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/164,768  
FILING DATE: 10-DEC-1993  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/947,992  
FILING DATE: 21-SEP-1992  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/696,953  
FILING DATE: 08-MAY-1991  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: P 40 15 044.5  
FILING DATE: 10-MAY-1990  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
NAME: Manspeizer, David A.  
REGISTRATION NUMBER: 37,540  
REFERENCE/DOCKET NUMBER: 05552.1075-03000  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202)408-4000  
TELEFAX: (202)408-4400  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 32 amino acids  
TYPE: amino acid  
STRANDEDNESS: single

TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-466-285-2

Query Match 100.0%; Score 46; DB 1; Length 32;  
Best Local Similarity 100.0%; Pred. No. 0.048;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SLQDIETC 9  
Db 19 SLQDIETC 27

RESULT 3  
US-08-164-768-2  
Sequence 2, Application US/08164768  
Patent No. 6322794  
GENERAL INFORMATION:  
APPLICANT: BLEUL, Conrad  
APPLICANT: GISSMANN, Lutz  
APPLICANT: MULLER, Martin  
TITLE OF INVENTION: SEROREACTIVE EPITOPES ON PROTEINS OF  
TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS (HPV) 18  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FINNEGAN, HENDERSON, FARABOW, GARRETT &  
ADDRESSEE: DUNNER, L.L.P.  
STREET: 1300 I Street, N.W.  
CITY: Washington  
STATE: DC  
COUNTRY: USA  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentln Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/164,768  
FILING DATE: 10-DEC-1993  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
NAME: Forman, David S.  
REGISTRATION NUMBER: 33,694  
REFERENCE/DOCKET NUMBER: 05552.1075-02000  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 408-4000  
TELEFAX: (202) 408-4400  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 32 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-164-768-2

Query Match 100.0%; Score 46; DB 2; Length 32;  
Best Local Similarity 100.0%; Pred. No. 0.048;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SLQDIETC 9  
Db 19 SLQDIETC 27

RESULT 4  
US-08-247-904B-10  
Sequence 10, Application US/08247904B  
Patent No. 5961699  
GENERAL INFORMATION:  
APPLICANT: Rolfe, Mark  
APPLICANT: Eckstein, Jens W.

APPLICANT: Draetta, Giulio  
TITLE OF INVENTION: Human Ubiquitin Conjugating Enzyme  
NUMBER OF SEQUENCES: 17  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Foley, Hoag & Eliot  
STREET: One Post Office Square  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: ASCII(text)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/247,904B  
FILING DATE: 23-MAY-1994  
CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: Vincent, Matthew P.  
REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: MIV-029.01  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 832-7000  
TELEFAX: (617) 832-7000  
INFORMATION FOR SEQ ID NO: 10:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 158 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-247-904B-10

Query Match 100.0%; Score 46; DB 1; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.26;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SLQDIETC 9  
Db 24 SLQDIETC 32

RESULT 5  
US-08-767-942A-19  
Sequence 19, Application US/08767942A  
Patent No. 6068982  
GENERAL INFORMATION:  
APPLICANT: Rolfe, Mark  
APPLICANT: Chiu, M. Isabel  
APPLICANT: Berlin, Vivian  
APPLICANT: Damagnez, Veronique  
APPLICANT: Draetta, Giulio  
APPLICANT: Guillaume, Coctarel  
TITLE OF INVENTION: UBIQUITIN CONJUGATING ENZYMES  
NUMBER OF SEQUENCES: 45  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FOLEY, HOAG & ELIOT LLP  
STREET: One Post Office Square  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02109-2170  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentln Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/767,942A  
FILING DATE: 17-DEC-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Vincent, Matthew P.

REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: MIV-029.04  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-832-1000  
TELEFAX: 617-832-7000  
INFORMATION FOR SEQ ID NO: 19:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 158 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-767-942A-19

Query Match 100.0%; Score 46; DB 2; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.26;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SLQDIETIC 9  
Db 24 SLQDIETIC 32

RESULT 6  
US-08-117-083-14  
Sequence 14, Application US/08117083  
Patent No. 5713054  
GENERAL INFORMATION:  
APPLICANT: Bourasnell, Michael E.  
APPLICANT: Ingler, Stephen C.  
APPLICANT: Munro, Alan J.  
TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human  
NUMBER OF SEQUENCES: 70  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Walter H. Dreger  
STREET: 4 Embarcadero Center, Suite 3400  
CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94111  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/117,083  
FILING DATE: 10-SEP-1993  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Dreger, Walter H.  
REGISTRATION NUMBER: 24,190  
REFERENCE/DOCKET NUMBER: A-58783  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-781-1989  
TELEFAX: 415-398-3249  
TELEX: 910 277299  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 271 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
NAME/KEY: Protein  
LOCATION: 1..271  
OTHER INFORMATION: /note="Xaa refers to stop codon in  
the open reading frame."  
US-08-117-083-14

Query Match 100.0%; Score 46; DB 1; Length 271;  
Best Local Similarity 100.0%; Pred. No. 0.46;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SLQDIETIC 9  
Db 25 SLQDIETIC 33

RESULT 7  
US-09-485-885-21  
Sequence 21, Application US/09485885  
Patent No. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabazon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Fernande  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO: 21  
LENGTH: 278  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-485-885-21

Query Match 100.0%; Score 46; DB 2; Length 278;  
Best Local Similarity 100.0%; Pred. No. 0.47;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SLQDIETIC 9  
Db 135 SLQDIETIC 143

RESULT 8  
US-09-485-885-23  
Sequence 23, Application US/09485885  
Patent No. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabazon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Fernande  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO: 23  
LENGTH: 383  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-485-885-23

Query Match 100.0%; Score 46; DB 2; Length 383;  
Best Local Similarity 100.0%; Pred. No. 0.66;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SLQDIETIC 9

Db 135 SL0DIBITC 143

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RESULT 9
US-08-159-339A-86
; Sequence 86, Application US/08159339A
; Patent No. 6037135
; GENERAL INFORMATION:
; APPLICANT: Kubo, Ralph T.
; APPLICANT: Grey, Howard M.
; APPLICANT: Sette, Alessandro
; APPLICANT: Celis, Eusebio
; TITLE OF INVENTION: HLA Binding peptides and their
; TITLE OF INVENTION: Uses
; NUMBER OF SEQUENCES: 1254
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/159,339A
; FILING DATE: 29-NOV-1993
; CLASSIFICATION: 424
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 07/926,666
; FILING DATE: 07-AUG-1992
; APPLICATION NUMBER: US 08/027,746
; FILING DATE: 05-MAR-1993
; APPLICATION NUMBER: US 08/103,396
; FILING DATE: 06-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Ellen Lauver
; REGISTRATION NUMBER: 32,762
; REFERENCE/DOCKET NUMBER: 018623-005030US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; TELEX:
; INFORMATION FOR SEQ ID NO: 86:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-159-339A-86

Query Match 91.3%; Score 42; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.081;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

Qy 2 L0DIEITC 9  
1 L0DIEITC 8

```
RESULT 10
US-08-809-999D-17
; Sequence 17, Application US/08809999D
; Patent No. 6013765
; GENERAL INFORMATION:
; APPLICANT: Coulie, Pierre; Ikeda, Hideyuki;
; APPLICANT: Boon-Falleur, Thierry
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules
```

```
; TITLE OF INVENTION: Coding For Tumor Rejection Antigen Precursors DAGE and
; TITLE OF INVENTION: Uses Thereof
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski, L.L.P.
; STREET: 666 Fifth Avenue
; CITY: New York City
; STATE: New York
; COUNTRY: USA
; ZIP: 10103
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/809,999D
; FILING DATE: 9-April-1997
; CLASSIFICATION: 435
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: 08/316,231
; FILING DATE: 30-September-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Hanson, No. 6013765man D.
; REGISTRATION NUMBER: LUD 5386.1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 318-3000
; TELEFAX: (212) 752-5958
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 509 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: DAGE amino acid sequence
; NAME/KEY: corresponding to SEQ ID NO:2
US-08-809-999D-17

Query Match 82.6%; Score 38; DB 2; Length 509;
Best Local Similarity 55.6%; Pred. No. 30;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

Qy 1 SL0DIBITC 9  
Db 234 SIEDLEVTIC 242

```
RESULT 11
US-09-069-637-17
; Sequence 17, Application US/09069637
; Patent No. 6022692
; GENERAL INFORMATION:
; APPLICANT: Coulie, Pierre; Ikeda, Hideyuki;
; APPLICANT: Boon-Falleur, Thierry
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules
; TITLE OF INVENTION: Coding For Tumor Rejection Antigen Precursors DAGE and Uses T
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felte & Lynch
; STREET: 805 Third Avenue
; CITY: New York City
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/069,637
```

```

; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/809,999
; FILING DATE: 9-April-1997
; APPLICATION NUMBER: 08/316,231
; FILING DATE: 30-September-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Hanson, No. 6022692man D.
; REGISTRATION NUMBER: 30,946
; REFERENCE/DOCKET NUMBER: LUD 5386.1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 509 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: DAGB amino acid sequence
; NAME/KEY: corresponding to SEQ ID NO:2
US-09-069-637-17

Query Match      82.6%; Score 38; DB 2; Length 509;
Best Local Similarity 55.6%; Pred. No. 30;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1 SLQDIETTC 9
DB      234 SIEDLEVTC 242

RESULT 12
US-09-322-360-17
; Sequence 17, Application US/09322360
; Patent No. 6297050
; GENERAL INFORMATION:
; APPLICANT: Coulle, Pierre; Ikeda, Hideyuki;
; APPLICANT: Boon-Falleur, Thierry
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules
; TITLE OF INVENTION: Coding For Tumor Rejection Antigen Precursors DAGB and
; TITLE OF INVENTION: Uses thereof
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Fulbright & Jaworski, L.L.P.
; STREET: 666 Fifth Avenue
; CITY: New York City
; STATE: New York
; COUNTRY: USA
; ZIP: 10103
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/322,360
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/809,999
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Hanson, No. 6297050man D.
; REGISTRATION NUMBER: 30,946
; REFERENCE/DOCKET NUMBER: LUD 5386.1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 318-3000
; TELEFAX: (212) 752-5958
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
```

```

; LENGTH: 509 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: DAGB amino acid sequence
; NAME/KEY: corresponding to SEQ ID NO:2
US-09-322-360-17

Query Match      82.6%; Score 38; DB 2; Length 509;
Best Local Similarity 55.6%; Pred. No. 30;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1 SLQDIETTC 9
DB      234 SIEDLEVTC 242

RESULT 13
US-09-131-831B-17
; GENERAL INFORMATION:
; APPLICANT: Coulle, Pierre; Ikeda, Hideyuki; Boon-
; APPLICANT: Falleur, Thierry
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules
; TITLE OF INVENTION: Coding For Tumor Rejection Antigen Precursors DAGB and
; TITLE OF INVENTION: Uses thereof
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Fulbright & Jaworski L.L.P.
; STREET: 666 Fifth Avenue
; CITY: New York City
; STATE: New York
; COUNTRY: USA
; ZIP: 10103
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/131,831B
; FILING DATE: 11-Aug-1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/809,999
; FILING DATE: 9-April-1997
; APPLICATION NUMBER: 08/316,231
; FILING DATE: 30-September-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Hanson, No. 6339149man D.
; REGISTRATION NUMBER: 30,946
; REFERENCE/DOCKET NUMBER: LUD 5386.3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 318-3100
; TELEFAX: (212) 318-3400
; SEQUENCE DESCRIPTION: SEQ ID NO: 17:
US-09-131-831B-17

Query Match      82.6%; Score 38; DB 2; Length 509;
Best Local Similarity 55.6%; Pred. No. 30;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1 SLQDIETTC 9
DB      234 SIEDLEVTC 242

RESULT 14
US-09-949-016-11233
; Sequence 11233, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
```



```
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11233
; LENGTH: 528
; TYPE: PRT
; ORGANISM: Human
; US-09-949-016-11233

Query Match      82.6%; Score 38; DB 2; Length 528;
Best Local Similarity 55.6%; Pred. No. 31;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      1 SL0DIEITC 9
Db      253 SIEDLEVTCT 261

RESULT 15
US-09-252-991A-28397
; Sequence 28397, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 28397
; LENGTH: 127
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-28397

Query Match      78.3%; Score 36; DB 2; Length 127;
Best Local Similarity 75.0%; Pred. No. 16;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy      2 LODIEITC 9
Db      32 LNDIEVTCT 39

RESULT 16
US-09-248-796A-19040
; Sequence 19040, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstein et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
```

```
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 19040
; LENGTH: 724
; TYPE: PRT
; ORGANISM: Candida albicans
; US-09-248-796A-19040

Query Match      76.1%; Score 35; DB 2; Length 724;
Best Local Similarity 85.7%; Pred. No. 1.6e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      3 ODIEITC 9
Db      488 EDIEITCT 494

RESULT 17
US-09-720-655B-1
; Sequence 1, Application US/09720655B
; Patent No. 6723521
; GENERAL INFORMATION:
; APPLICANT: YOSHIMOTO, MAKOTO
; APPLICANT: YAZAKI, MADOKA
; APPLICANT: MATSUMOTO, KAYO
; APPLICANT: TAKAYAMA, KIYOSHI
; APPLICANT: TSURITANI, KATSUKI
; TITLE OF INVENTION: SUGAR TRANSPORTER
; FILE REFERENCE: ASA-C034
; CURRENT APPLICATION NUMBER: US/09/720,655B
; CURRENT FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: JP 10/187235
; PRIOR FILING DATE: 1998-07-02
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 519
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-720-655B-1

Query Match      73.9%; Score 34; DB 2; Length 519;
Best Local Similarity 66.7%; Pred. No. 1.7e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      1 SL0DIEITC 9
Db      277 ALQDLENTCT 285
```

```
RESULT 18
US-08-964-127-2
; Sequence 2, Application US/08964127
; Patent No. 6277565
; GENERAL INFORMATION:
; APPLICANT: Grandearl, Andrew David John
; TITLE OF INVENTION: NOVEL GENES ENCODING TRANSPORTER-LIKE
; TITLE OF INVENTION: MOLECULES
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: FastSeq for Windows Version 2.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/964,127
```

FILING DATE: 06-NOV-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Crews, Ph.D., L. Lee  
REGISTRATION NUMBER: P-43,567  
REFERENCE/DOCKET NUMBER: 07334/038001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617/542-5070  
TELEFAX: 617/542-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 520 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FRAGMENT TYPE: internal  
US-08-964-127-2

Query Match 73.9%; Score 34; DB 2; Length 520;  
Best Local Similarity 66.7%; Pred. No. 1.7e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 SLQDIETC 9  
:|||||  
DB 277 ALQDLNTC 285

RESULT 19  
US-09-496-692-2  
Sequence 2, Application US/09496692  
Patent No. 6313271

GENERAL INFORMATION:

APPLICANT: Grandearl, Andrew David John  
TITLE OF INVENTION: NOVEL GENES ENCODING TRANSPORTER-LIKE  
TITLE OF INVENTION: MOLECULES

NUMBER OF SEQUENCES: 17

CORRESPONDENCE ADDRESS:

ADDRESSEE: Fish & Richardson P.C.

STREET: 225 Franklin Street

CITY: Boston

STATE: MA

COUNTRY: USA

ZIP: 02110-2804

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: Windows 95

SOFTWARE: FASTSEQ for Windows Version 2.0b

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/496,692

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/964,127

FILING DATE: 06-NOV-1997

ATTORNEY/AGENT INFORMATION:

NAME: Crews, Ph.D., L. Lee

REGISTRATION NUMBER: P-43,567

REFERENCE/DOCKET NUMBER: 07334/038001

TELECOMMUNICATION INFORMATION:

TELEPHONE: 617/542-5070

TELEFAX: 617/542-8906

TELEX: 200154

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 520 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

FRAGMENT TYPE: internal

US-09-496-692-2

Query Match 73.9%; Score 34; DB 2; Length 520;  
Best Local Similarity 66.7%; Pred. No. 1.7e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 SLQDIETC 9  
:|||||  
DB 277 ALQDLNTC 285

RESULT 20  
US-10-000-273-2  
Sequence 2, Application US/10000273  
Patent No. 6573057

GENERAL INFORMATION:

APPLICANT: Grandearl, Andrew David John  
TITLE OF INVENTION: NOVEL GENES ENCODING TRANSPORTER-LIKE  
TITLE OF INVENTION: MOLECULES

NUMBER OF SEQUENCES: 17

CORRESPONDENCE ADDRESS:

ADDRESSEE: Fish & Richardson P.C.

STREET: 225 Franklin Street

CITY: Boston

STATE: MA

COUNTRY: USA

ZIP: 02110-2804

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: Windows 95

SOFTWARE: FASTSEQ for Windows Version 2.0b

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/000,273

FILING DATE: 02-NOV-2001

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/964,127

FILING DATE: 06-NOV-1997

ATTORNEY/AGENT INFORMATION:

NAME: Crews, Ph.D., L. Lee

REGISTRATION NUMBER: P-43,567

REFERENCE/DOCKET NUMBER: 07334/038001

TELECOMMUNICATION INFORMATION:

TELEPHONE: 617/542-5070

TELEFAX: 617/542-8906

TELEX: 200154

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 520 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

FRAGMENT TYPE: internal

SEQUENCE DESCRIPTION: SEQ ID NO: 2:

US-10-000-273-2

Query Match 73.9%; Score 34; DB 2; Length 520;  
Best Local Similarity 66.7%; Pred. No. 1.7e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 SLQDIETC 9  
:|||||  
DB 277 ALQDLNTC 285

RESULT 21

US-08-323-170B-2

Sequence 2, Application US/08323170B

Patent No. 5733772

GENERAL INFORMATION:

APPLICANT: Williamson, Kim C.

APPLICANT: Kaslow, David C.

TITLE OF INVENTION: Cloning and Expression of Plasmodium

TITLE OF INVENTION: falciparum Transmission-Blocking Target Antigen, Pf2330

US-09-496-692-2

NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, 8th Floor  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/323,170B  
FILING DATE: 13-OCT-1994  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/010,409  
FILING DATE: 29-JAN-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Quine, Jonathan A.  
REGISTRATION NUMBER: P-41,261  
REFERENCE/DOCKET NUMBER: 015280-113100US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 3135 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-323-170B-2

Query Match 73.9%; Score 34; DB 1; Length 3135;  
Best Local Similarity 62.5%; Pred. No. 1.2e+03;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 2 LQDIETC 9  
|:|:|:|:  
Db 1242 LBDVEISC 1249

RESULT 22  
US-08-954-441-2  
Sequence 2, Application US/08954441  
Patent No. 6316000  
GENERAL INFORMATION:  
APPLICANT: Williamson, Klm C.  
APPLICANT: Kaslow, David C.  
TITLE OF INVENTION: Cloning and Expression of Plasmodium  
TITLE OF INVENTION: falciparum Transmission-Blocking Target Antigen, Pfs230  
NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/954,441  
FILING DATE: 20-OCT-1997  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/323,170  
FILING DATE: 13-OCT-1994

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/010,409  
FILING DATE: 29-JAN-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Einhorn, Gregory P.  
REGISTRATION NUMBER: 38,440  
REFERENCE/DOCKET NUMBER: 015280-113110US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 3135 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-954-441-2

Query Match 73.9%; Score 34; DB 2; Length 3135;  
Best Local Similarity 62.5%; Pred. No. 1.2e+03;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 2 LQDIETC 9  
|:|:|:|:  
Db 1242 LBDVEISC 1249

RESULT 23  
US-09-328-352-7626  
Sequence 7626, Application US/09328352  
Patent No. 6562958  
GENERAL INFORMATION:  
APPLICANT: Gary L. Breton et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER  
TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS  
FILE REFERENCE: GTC99-03PA  
CURRENT APPLICATION NUMBER: US/09/328,352  
CURRENT FILING DATE: 1999-06-04  
NUMBER OF SEQ ID NOS: 8252  
SEQ ID NO 7626  
LENGTH: 286  
TYPE: PRT  
ORGANISM: Acinetobacter baumannii  
US-09-328-352-7626

Query Match 71.7%; Score 33; DB 2; Length 286;  
Best Local Similarity 66.7%; Pred. No. 1.4e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 SLQDIETC 9  
|:|:|:|:  
Db 254 SLQDIALVC 262

RESULT 24  
US-09-949-016-10846  
Sequence 10846, Application US/09949016  
Patent No. 6812339  
GENERAL INFORMATION:  
APPLICANT: VENTER, J. Craig et al.  
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
FILE REFERENCE: CL001307  
CURRENT APPLICATION NUMBER: US/09/949,016  
CURRENT FILING DATE: 2000-04-14  
PRIOR APPLICATION NUMBER: 60/241,755  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/237,768  
PRIOR FILING DATE: 2000-10-03  
PRIOR APPLICATION NUMBER: 60/231,498  
PRIOR FILING DATE: 2000-09-08  
NUMBER OF SEQ ID NOS: 207012  
SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 10846  
LENGTH: 839  
TYPE: PRT  
ORGANISM: Human  
US-09-943-016-10846

Query Match 71.7%; Score 33; DB 2; Length 839;  
Best Local Similarity 75.0%; Pred. No. 4.5e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LDIETC 9  
DB 206 LDIETC 213

RESULT 25  
US-08-912-129A-61  
Sequence 61, Application US/08912129A  
Patent No. 5922533

GENERAL INFORMATION:  
APPLICANT: VALLARI, ANADRUZELA S.  
APPLICANT: HACKETT, JOHN JR.  
APPLICANT: HICKMAN, ROBERT K.  
APPLICANT: VARITEK, VINCENT A. JR.  
APPLICANT: NECKLAMS, ELIZABETH A.  
APPLICANT: GOLDEN, ALAN M.  
APPLICANT: BRENNAN, CATHERINE A.  
APPLICANT: DEVARE, SUSHIL G.  
TITLE OF INVENTION: RAPID ASSAY FOR SIMULTANEOUS DETECTION AND DIFFERENTIATION  
NUMBER OF SEQUENCES: 89  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Abbott Laboratories  
STREET: 100 Abbott Park Road  
CITY: Abbott Park  
STATE: IL  
COUNTRY: USA  
ZIP: 60064-3500

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 inch diskette, 1.44 MB  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: MS-DOS (Windows 95)  
SOFTWARE: Microsoft Word (ASCII format output)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/912,129A  
FILING DATE: 15-AUG-1997  
CLASSIFICATION: 436  
PRIOR APPLICATION NUMBER:

FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Danckerts, Andreas M.  
REGISTRATION NUMBER: 32,652  
REFERENCE/DOCKET NUMBER: 6109.US.01  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 847-937-9803  
TELEFAX: 847-938-2623  
TELEX:

INFORMATION FOR SEQ ID NO: 61:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 873 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: Protein  
US-08-912-129A-61

Query Match 71.7%; Score 33; DB 1; Length 873;  
Best Local Similarity 100.0%; Pred. No. 4.6e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 DIETC 9  
DB 293 DIETC 298

RESULT 26  
US-08-911-824-61  
Sequence 61, Application US/08911824  
Patent No. 6846905

GENERAL INFORMATION:  
APPLICANT: Abbott Laboratories  
APPLICANT: HACKETT, John R., Jr.  
APPLICANT: Yamaguchi, Julie  
APPLICANT: Golden, Alan M.  
APPLICANT: Brennan, Catherine A.  
APPLICANT: Hickman, Robert K.  
APPLICANT: Devare, Sushil G.  
TITLE OF INVENTION: NOVEL ANTIGEN CONSTRUCTS USEFUL IN THE  
DETECTION AND DIFFERENTIATION OF ANTIBODIES TO HIV  
FILE REFERENCE: 6165.US.01  
CURRENT APPLICATION NUMBER: US/08/911,824  
CURRENT FILING DATE: 1997-08-15  
NUMBER OF SEQ ID NOS: 121  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 61  
LENGTH: 873  
TYPE: PRT  
ORGANISM: Human Immunodeficiency Virus  
FEATURE:  
OTHER INFORMATION: HIV-1 Group O isolate HAM112  
US-08-911-824-61

Query Match 71.7%; Score 33; DB 2; Length 873;  
Best Local Similarity 100.0%; Pred. No. 4.6e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 DIETC 9  
DB 293 DIETC 298

RESULT 27  
US-09-270-767-61394  
Sequence 61394, Application US/09270767  
Patent No. 6703491  
GENERAL INFORMATION:  
APPLICANT: Homburger et al.  
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
FILE REFERENCE: File Reference: 7326-094  
CURRENT APPLICATION NUMBER: US/09/270,767  
CURRENT FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 62517  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 61394  
LENGTH: 53  
TYPE: PRT

ORGANISM: Drosophila melanogaster  
US-09-270-767-61394

Query Match 69.6%; Score 32; DB 2; Length 53;  
Best Local Similarity 75.0%; Pred. No. 37;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LDIETC 9  
DB 7 LDIETC 14

RESULT 28  
US-09-270-767-45862  
Sequence 45862, Application US/09270767  
Patent No. 6703491  
GENERAL INFORMATION:  
APPLICANT: Homburger et al.  
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
FILE REFERENCE: File Reference: 7326-094



;; PRIOR APPLICATION NUMBER: US 60/055,779  
;; PRIOR FILING DATE: 1997-08-14  
;; NUMBER OF SEQ ID NOS: 5674  
;; SEQ ID NO 4766  
;; LENGTH: 205  
;; TYPE: PRT  
;; ORGANISM: Staphylococcus epidermidis  
US-09-134-001C-4766

Query Match  
Best Local Similarity 67.4%; Score 31; DB 2; Length 205;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LODIEITC 9  
Db 192 LEDIEITC 199

RESULT 34  
US-09-519-232-74  
; Sequence 74, Application US/09519232  
; Patent No. 6528702  
; GENERAL INFORMATION:

;; APPLICANT: Salmeron, John  
;; APPLICANT: Weislo, Laura  
;; APPLICANT: Willits, Michael  
;; APPLICANT: Mengiste, Tesfaye  
;; TITLE OF INVENTION: NOVEL PLANT GENES AND USES THEREOF  
;; FILE REFERENCE: S-30857A/RFP2095  
;; CURRENT APPLICATION NUMBER: US/09/519,232  
;; CURRENT FILING DATE: 2000-03-06  
;; NUMBER OF SEQ ID NOS: 74  
;; SOFTWARE: PatentIn Ver. 2.1  
;; SEQ ID NO 74  
;; LENGTH: 369  
;; TYPE: PRT  
;; ORGANISM: Nicotiana tabacum  
US-09-519-232-74

Query Match  
Best Local Similarity 83.3%; Score 31; DB 2; Length 369;  
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 4 DIEITC 9  
Db 227 DIEITC 232

RESULT 35  
US-09-248-796A-17389  
; Sequence 17389, Application US/09248796A  
; Patent No. 6747137  
; GENERAL INFORMATION:

;; APPLICANT: Keith Weinstein et al  
;; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN  
;; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS  
;; FILE REFERENCE: 107196.132  
;; CURRENT APPLICATION NUMBER: US/09/248,796A  
;; CURRENT FILING DATE: 1999-02-12  
;; PRIOR APPLICATION NUMBER: US 60/074,725  
;; PRIOR FILING DATE: 1998-02-13  
;; PRIOR APPLICATION NUMBER: US 60/096,409  
;; PRIOR FILING DATE: 1998-08-13  
;; NUMBER OF SEQ ID NOS: 28208  
;; SEQ ID NO 17389  
;; LENGTH: 592  
;; TYPE: PRT  
;; ORGANISM: Candida albicans  
US-09-248-796A-17389

Query Match  
Best Local Similarity 75.0%; Score 31; DB 2; Length 592;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SIQDIEIT 8  
Db 475 SIQDIEIT 482

RESULT 36  
US-09-270-767-41626  
; Sequence 41626, Application US/09270767  
; Patent No. 6703491  
; GENERAL INFORMATION:  
;; APPLICANT: Homburger et al.  
;; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
;; FILE REFERENCE: File Reference: 7326-094  
;; CURRENT APPLICATION NUMBER: US/09/270,767  
;; CURRENT FILING DATE: 1999-03-17  
;; NUMBER OF SEQ ID NOS: 62517  
;; SOFTWARE: PatentIn Ver. 2.0  
;; SEQ ID NO 41626  
;; LENGTH: 733  
;; TYPE: PRT  
;; ORGANISM: Drosophila melanogaster  
;; FEATURE:  
;; OTHER INFORMATION: Xaa means any amino acid  
US-09-270-767-41626

Query Match  
Best Local Similarity 67.4%; Score 31; DB 2; Length 733;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SIQDIEIT 8  
Db 455 SIQDIEIT 462

RESULT 37  
US-09-248-796A-14387  
; Sequence 14387, Application US/09248796A  
; Patent No. 6747137  
; GENERAL INFORMATION:  
;; APPLICANT: Keith Weinstein et al  
;; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN  
;; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS  
;; FILE REFERENCE: 107196.132  
;; CURRENT APPLICATION NUMBER: US/09/248,796A  
;; CURRENT FILING DATE: 1999-02-12  
;; PRIOR APPLICATION NUMBER: US 60/074,725  
;; PRIOR FILING DATE: 1998-02-13  
;; PRIOR APPLICATION NUMBER: US 60/096,409  
;; PRIOR FILING DATE: 1998-08-13  
;; NUMBER OF SEQ ID NOS: 28208  
;; SEQ ID NO 14387  
;; LENGTH: 826  
;; TYPE: PRT  
;; ORGANISM: Candida albicans  
US-09-248-796A-14387

Query Match  
Best Local Similarity 67.4%; Score 31; DB 2; Length 826;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LODIEITC 9  
Db 659 LODIEITC 666

RESULT 38  
US-09-585-858-19  
; Sequence 19, Application US/09585858  
; Patent No. 6492161  
; GENERAL INFORMATION:  
;; APPLICANT: Sigridur Hjorleifsdottir  
;; APPLICANT: Gudmundur O. Hreggvidsson

```

      APPLICANT: Olafur H. Fridjonsson
      APPLICANT: Arnthor Avararson
      TITLE OF INVENTION: Bacteriophage RM378 of a Thermophilic
      TITLE OF INVENTION: Host Organism
      FILE REFERENCE: 2739.1001-001
      CURRENT APPLICATION NUMBER: US/09/585,858
      CURRENT FILING DATE: 2000-12-18
      PRIOR APPLICATION NUMBER: 60/117,120
      PRIOR FILING DATE: 1999-06-02
      NUMBER OF SEQ ID NOS: 73
      SOFTWARE: FastSeq for Windows Version 4.0
      SEQ ID NO 19
      LENGTH: 852
      TYPE: PRT
      ORGANISM: Varicella-zoster virus (strain Dumas)
      US-09-585-858-19

      Query Match          67.4%  Score 31; DB 2; Length 852;
      Best Local Similarity 55.6%  Pred. No. 1.1e+03;
      Matches      5; Conservative      2; Mismatches      2; Indels      0; Gaps      0

      QY      1  SLQDIETC 9
      Db      50  TLDVEIDC 58

      RESULT 39
      US-10-270-878-19
      Sequence 19, Application US/10270878
      Patent No. 6818425
      GENERAL INFORMATION:
      APPLICANT: Sigridur Hjorleifsdottir
      APPLICANT: Gudmundur O. Hreggvidsson
      APPLICANT: Olafur H. Fridjonsson
      APPLICANT: Arnthor Avararson
      APPLICANT: Jakob K. Kristjansson
      TITLE OF INVENTION: Bacteriophage RM378 of a Thermophilic
      TITLE OF INVENTION: Host Organism
      FILE REFERENCE: 2739.1001-001
      CURRENT APPLICATION NUMBER: US/10/270,878
      CURRENT FILING DATE: 2002-10-11
      PRIOR APPLICATION NUMBER: US/09/585,858
      PRIOR FILING DATE: 2000-12-18
      NUMBER OF SEQ ID NOS: 73
      SOFTWARE: FastSeq for Windows Version 4.0
      SEQ ID NO 19
      LENGTH: 852
      TYPE: PRT
      ORGANISM: Varicella-zoster virus (strain Dumas)
      US-10-270-878-19

      Query Match          67.4%  Score 31; DB 2; Length 852;
      Best Local Similarity 55.6%  Pred. No. 1.1e+03;
      Matches      5; Conservative      2; Mismatches      2; Indels      0; Gaps      0

      QY      1  SLQDIETC 9
      Db      50  TLDVEIDC 58

      RESULT 40
      US-08-680-326-35
      Sequence 35, Application US/08680326
      Patent No. 5925733
      GENERAL INFORMATION:
      APPLICANT: ROSE, TIMOTHY M.
      APPLICANT: BOSCH, MARINX
      APPLICANT: STRAND, KURT
      APPLICANT: TODARO, GEORGE J.
      TITLE OF INVENTION: DNA POLYMERASE OF GAMMA HERPES VIRUSES
      TITLE OF INVENTION: ASSOCIATED WITH KAPOSI'S SARCOMA AND RETROPERITONEAL
      TITLE OF INVENTION: FIBROMATOSIS

```

```

NUMBER OF SEQUENCES: 152
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 755 Page Mill Road
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94304-1018

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/680,326
FILING DATE:
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Schiff, J. Michael
REGISTRATION NUMBER: 40,253
REFERENCE/DOCKET NUMBER: 29938-20001.00
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 813-5600
TELEFAX: (415) 494-0792
TELEX: 706141
INFORMATION FOR SEQ ID NO: 35:
SEQUENCE CHARACTERISTICS:
LENGTH: 1194 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear

US-08-680-326-35

Query Match      67.4%; Score 31; DB 1; Length 1194;
Best Local Similarity 55.6%; Pred. No. 1.5e+03;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0.

QY      1 SLDIETIC 9
      :|:|:|
Db      318 TLDSEIDC 326

RESULT 41
US-09-424-783-5
; Sequence 5, Application US/09424783
; Patent No. 6780608
; GENERAL INFORMATION:
; APPLICANT: Hakamata, Yasuhiro
; APPLICANT: Nishimura, Seichiro
; APPLICANT: Barsoumian, Edward Leon
; TITLE OF INVENTION: Human Type 3 Ryanodine Receptor Protein
; FILE REFERENCE: 0652.2000000
; CURRENT APPLICATION NUMBER: US/09/424,783
; CURRENT FILING DATE: 1999-12-01
; PRIOR APPLICATION NUMBER: PCT/EP98/02926
; PRIOR FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: DE 197 22 317.6
; PRIOR FILING DATE: 1997-05-28
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 4968
; TYPE: PRT
; ORGANISM: Oryctolagus cuniculus

US-09-424-783-5

Query Match      67.4%; Score 31; DB 2; Length 4968;
Best Local Similarity 75.0%; Pred. No. 6.9e+03;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0.

QY      2 LQDIETIC 9
      :|:|:|

```

Db 3830 LODDEFTC 3837

```
RESULT 42
US-09-051-529-1
; Sequence 1, Application US/09051529A
; Patent No. 6232089
; GENERAL INFORMATION:
; APPLICANT: BUCKLE, Derek Richard
; APPLICANT: CHRISTIE, Gary
; APPLICANT: MAROLEWSKI, Ariane Elizabeth
; APPLICANT: MAYER, Ruth Judith
; APPLICANT: SMITH, David Glynn
; TITLE OF INVENTION: CD23 Processing Enzyme Preparation
; FILE REFERENCE: P50386-2
; CURRENT APPLICATION NUMBER: US/09/051,529A
; CURRENT FILING DATE: 1998-08-21
; EARLIER APPLICATION NUMBER: 60/013,427
; EARLIER FILING DATE: 1996-03-14
; EARLIER APPLICATION NUMBER: 60/005,316
; EARLIER FILING DATE: 1995-10-10
; NUMBER OF SEQ ID NOS: 1
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human
US-09-051-529-1
```

Query Match 65.2%; Score 30; DB 2; Length 10;  
Best Local Similarity 57.1%; Pred. No. 15;  
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 3 QDIETC 9  
Db 4 QDLISC 10

```
RESULT 43
US-09-949-016-6831
; Sequence 6831, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6831
; LENGTH: 281
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-6831
```

Query Match 65.2%; Score 30; DB 2; Length 281;  
Best Local Similarity 62.5%; Pred. No. 5.2e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LODIBITC 9  
Db 230 LRDILIC 237

RESULT 44

US-08-964-127-6

```
; Sequence 6, Application US/08964127
; Patent No. 6277565
; GENERAL INFORMATION:
; APPLICANT: Grandearl, Andrew David John
; TITLE OF INVENTION: NOVEL GENES ENCODING TRANSPORTER-LIKE
; TITLE OF INVENTION: MOLECULES
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: FastSeq for Windows Version 2.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/964,127
; FILING DATE: 06-NOV-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Crews, Ph.D., L. Lee
; REGISTRATION NUMBER: P-43,567
; REFERENCE/DOCKET NUMBER: 07334/038001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/542-5070
; TELEFAX: 617/542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 322 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FRAGMENT TYPE: Internal
US-08-964-127-6
```

Query Match 65.2%; Score 30; DB 2; Length 322;  
Best Local Similarity 55.6%; Pred. No. 6e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SLQDIETC 9  
Db 79 ALQDLINTC 87

```
RESULT 45
US-09-496-692-6
; Sequence 6, Application US/09496692
; Patent No. 6313271
; GENERAL INFORMATION:
; APPLICANT: Grandearl, Andrew David John
; TITLE OF INVENTION: NOVEL GENES ENCODING TRANSPORTER-LIKE
; TITLE OF INVENTION: MOLECULES
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: FastSeq for Windows Version 2.0b
```



CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/496,692  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/964,127  
FILING DATE: 06-NOV-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Crews, Ph.D., L. Lee  
REGISTRATION NUMBER: P-43,567  
REFERENCE/DOCKET NUMBER: 07334/038001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617/542-5070  
TELEFAX: 617/542-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 322 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FRAGMENT TYPE: internal  
US-09-496-692-6

Query Match 65.2%; Score 30; DB 2; Length 322;  
Best Local Similarity 55.6%; Pred. No. 6e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 SLDDIETC 9  
DB 79 ALQLENTC 87

RESULT 46  
US-10-000-273-6  
Sequence 6, Application US/10000273  
Patent No. 6573057  
GENERAL INFORMATION:  
APPLICANT: Grandearl, Andrew David John  
TITLE OF INVENTION: NOVEL GENES ENCODING TRANSPORTER-LIKE  
MOLECULES  
NUMBER OF SEQUENCES: 17  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows 95  
SOFTWARE: FastSeq for Windows Version 2.0b  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/000,273  
FILING DATE: 02-NO. 6573057-2001  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/964,127  
FILING DATE: 06-NOV-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Crews, Ph.D., L. Lee  
REGISTRATION NUMBER: P-43,567  
REFERENCE/DOCKET NUMBER: 07334/038001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617/542-5070  
TELEFAX: 617/542-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 322 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein

FRAGMENT TYPE: internal  
SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
US-10-000-273-6

Query Match 65.2%; Score 30; DB 2; Length 322;  
Best Local Similarity 55.6%; Pred. No. 6e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 SLDDIETC 9  
DB 79 ALQLENTC 87

RESULT 47  
US-09-949-016-7870  
Sequence 7870, Application US/09949016  
Patent No. 6812339  
GENERAL INFORMATION:  
APPLICANT: VENTER, J. Craig et al.  
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
FILE REFERENCE: CL001307  
CURRENT APPLICATION NUMBER: US/09/949,016  
PRIOR FILING DATE: 2000-04-14  
PRIOR APPLICATION NUMBER: 60/241,755  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/237,768  
PRIOR FILING DATE: 2000-10-03  
PRIOR APPLICATION NUMBER: 60/231,498  
PRIOR FILING DATE: 2000-09-08  
NUMBER OF SEQ ID NOS: 207012  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 7870  
LENGTH: 324  
TYPE: PRT  
ORGANISM: Human  
US-09-949-016-7870

Query Match 65.2%; Score 30; DB 2; Length 324;  
Best Local Similarity 62.5%; Pred. No. 6.1e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 LODIETC 9  
DB 273 LRDIELTC 280

RESULT 48  
US-08-624-545-1  
Sequence 1, Application US/08624545  
Patent No. 5817495  
GENERAL INFORMATION:  
APPLICANT: Pedersen, Anders  
APPLICANT: Vind, Jesper  
APPLICANT: Svendsen, Allan  
APPLICANT: Cherry, Joel  
APPLICANT: Lamea, Michael  
APPLICANT: Schneider, Palte  
APPLICANT: Jensen, Birger  
TITLE OF INVENTION: H2O2-Stable Peroxidase Variants  
NUMBER OF SEQUENCES: 70  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: NO. 58174950 No. 5817495disk of No. 5817495th America  
STREET: 405 Lexington Avenue  
CITY: New York  
STATE: New York  
COUNTRY: USA  
ZIP: 10174  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25

```

; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/624,545
; FILING DATE: 07-MAY-1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Agria, Cheryl H.
; REGISTRATION NUMBER: 34,086
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 867-0123
; TELEFAX: (212) 878-9655
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 343 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-624-545-1
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Db      313 TVDDIEVSC 321
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; Sequence 1, Application US/09235736
; Patent No. 5968883
; GENERAL INFORMATION:
; APPLICANT: Cherry, Joel
; APPLICANT: Svendsen, Allan
; APPLICANT: Damhus, Ture
; APPLICANT: Schneider, Palle
; TITLE OF INVENTION: Peroxidase Variants
; FILE REFERENCE: 4938.204-US
; CURRENT APPLICATION NUMBER: US/09/235,736
; EARLIER FILING DATE: 1999-01-22
; EARLIER APPLICATION NUMBER: 0937/96
; EARLIER FILING DATE: 1996-09-03
; EARLIER APPLICATION NUMBER: PCT/DK97/00361
; EARLIER FILING DATE: 1997-09-02
; NUMBER OF SEQ ID NOS: 1
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 343
; TYPE: PRT
; ORGANISM: Coprinus cinereus
US-09-235-736-1
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Query Match          65.2%; Score 30; DB 1; Length 343;
Best Local Similarity 44.4%; Pred. No. 6.4e+02;
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RESULT 50
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; Sequence 4, Application US/09024532
; Patent No. 6245901
; GENERAL INFORMATION:
; APPLICANT: von der Osten, Claus
; APPLICANT: Olsen, Arne Agerlin
; APPLICANT: Røsgen, Ervin Ludo
; TITLE OF INVENTION: A Modified Polypeptide
; FILE REFERENCE: 4923.204-US
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; CURRENT APPLICATION NUMBER: US/09/024,532
; CURRENT FILING DATE: 1998-02-17
; EARLIER APPLICATION NUMBER: PCT/DK98/00046
; EARLIER FILING DATE: 1998-02-06
; EARLIER APPLICATION NUMBER: 0135/97
; EARLIER FILING DATE: 1997-02-06
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: FastSeq for Windows Version 3.0
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; LENGTH: 344
; TYPE: PRT
; ORGANISM: Arthromyces ramosus
US-09-024-532-4
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Query Match          65.2%; Score 30; DB 2; Length 344;
Best Local Similarity 44.4%; Pred. No. 6.4e+02;
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
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Job time : 23.8 secs
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GenCore version 5.1.7  
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OM protein - protein search, using sw model

Run on: May 5, 2006, 07:44:45 ; Search time 55.9 Seconds  
(without alignments)  
67.271 Million cell updates/sec

Title: US-08-170-344-22  
Perfect score: 46  
Sequence: 1 SLQDIEITC 9

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues  
Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0  
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Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database : Published Applications\_AA\_Main:\*

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- 2: /cgn2\_6/prodata/1/pubppaa/US08\_PUBCOMB.pep:\*
- 3: /cgn2\_6/prodata/1/pubppaa/US09\_PUBCOMB.pep:\*
- 4: /cgn2\_6/prodata/1/pubppaa/US10A\_PUBCOMB.pep:\*
- 5: /cgn2\_6/prodata/1/pubppaa/US10B\_PUBCOMB.pep:\*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysts of the total score distribution.

SUMMARIES

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3	46	100.0	42	5	US-10-751-845-152	Sequence 152, App
4	46	100.0	119	5	US-10-751-845-159	Sequence 159, App
5	46	100.0	158	5	US-10-800-023-27	Sequence 27, App
6	46	100.0	158	6	US-11-021-949-28	Sequence 28, App
7	46	100.0	172	4	US-10-472-724-6	Sequence 6, Appl
8	46	100.0	236	5	US-10-751-845-157	Sequence 157, App
9	46	100.0	237	5	US-10-751-845-158	Sequence 158, App
10	46	100.0	261	5	US-10-751-845-160	Sequence 160, App
11	46	100.0	278	4	US-10-000-903-21	Sequence 21, Appl
12	46	100.0	278	5	US-10-899-771-21	Sequence 21, Appl
13	46	100.0	383	4	US-10-000-903-23	Sequence 23, Appl
14	46	100.0	383	4	US-10-899-771-23	Sequence 23, Appl
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16	40	87.0	481	6	US-11-097-143-17043	Sequence 17043, A
17	39	84.8	282	4	US-10-243-552-539	Sequence 539, App
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19	38	82.6	378	5	US-10-450-763-42351	Sequence 42351, A
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21	38	82.6	509	4	US-10-097-340-254	Sequence 254, App
22	38	82.6	509	4	US-10-157-031-44	Sequence 44, Appl
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24	38	82.6	509	4	US-10-117-937-77	Sequence 77, Appl
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26	38	82.6	509	4	US-10-058-270A-110	Sequence 110, App
27	38	82.6	509	4	US-10-296-734-830	Sequence 830, App

28	38	82.6	509	4	US-10-657-022-77	Sequence 77, Appl
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62	34	73.9	366	4	US-10-367-978-76	Sequence 76, Appl
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83	33	71.7	498	4	US-10-425-114-550159	Sequence 550159, A
84	33	71.7	518	4	US-10-425-114-52331	Sequence 52331, A
85	33	71.7	535	4	US-10-424-599-159593	Sequence 159593, A
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93	32	69.6	85	4	US-10-276-724-2423	Sequence 2423, Ap
94	32	69.6	89	4	US-10-276-724-2423	Sequence 2423, Ap
95	32	69.6	95	3	US-09-764-991-3657	Sequence 3657, Ap
96	32	69.6	107	4	US-10-108-260A-2958	Sequence 2958, Ap
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889	28	60.9	360	4	US-10-424-599-181190	Sequence 181190, A	962	28	60.9	491	4	US-10-866-227-1374	Sequence 124, App
890	28	60.9	360	4	US-10-655-780-2	Sequence 2, Appl	963	28	60.9	497	4	US-10-425-115-197025	Sequence 197025, A
891	28	60.9	364	4	US-10-156-275-56	Sequence 56, Appl	964	28	60.9	502	4	US-10-425-115-364562	Sequence 364562, A
892	28	60.9	371	4	US-10-425-114-62424	Sequence 62424, A	965	28	60.9	504	4	US-10-381-906-179	Sequence 179, App
893	28	60.9	372	4	US-10-425-114-53454	Sequence 53454, A	966	28	60.9	504	4	US-10-437-963-186588	Sequence 186588, A
894	28	60.9	372	4	US-10-425-114-72059	Sequence 72059, A	967	28	60.9	514	4	US-10-742-682-6	Sequence 6, Appl
895	28	60.9	373	5	US-10-734-149-4	Sequence 4, Appl	968	28	60.9	515	3	US-09-738-626-4135	Sequence 4135, App
896	28	60.9	373	5	US-10-891-105-4	Sequence 4, Appl	969	28	60.9	515	3	US-10-450-763-30720	Sequence 30720, App
897	28	60.9	374	4	US-09-852-399-2	Sequence 2, Appl	970	28	60.9	518	4	US-10-437-963-129853	Sequence 129853, A
898	28	60.9	374	4	US-10-464-631-2	Sequence 2, Appl	971	28	60.9	527	4	US-10-425-114-52553	Sequence 52553, A
899	28	60.9	374	4	US-10-437-963-113561	Sequence 113561, A	972	28	60.9				
900	28	60.9	374	5	US-10-733-923-4880	Sequence 4880, App	973	28	60.9				
901	28	60.9	375	4	US-10-425-114-58493	Sequence 58493, App	974	28	60.9				
902	28	60.9	375	4	US-10-125-692-13	Sequence 13, Appl	975	28	60.9				
903	28	60.9	379	5	US-10-991-347-13	Sequence 13, Appl	976	28	60.9				

```
977 28 60.9 540 4 US-10-424-599-158205 Sequence 158205,
978 28 60.9 547 4 US-10-425-114-45733 Sequence 45733, A
979 28 60.9 567 4 US-10-425-114-63551 Sequence 63551, A
980 28 60.9 569 4 US-10-437-963-132696 Sequence 132696,
981 28 60.9 572 3 US-09-943-075A-2 Sequence 2, Appl1
982 28 60.9 572 5 US-10-655-506-5 Sequence 5, Appl1
983 28 60.9 572 5 US-10-978-758-2 Sequence 2, Appl1
984 28 60.9 574 4 US-10-425-114-63546 Sequence 63546, A
985 28 60.9 591 4 US-10-425-114-52809 Sequence 52809, A
986 28 60.9 591 4 US-10-425-115-330146 Sequence 330146,
987 28 60.9 597 4 US-10-425-115-364568 Sequence 364568,
988 28 60.9 598 4 US-10-425-115-269228 Sequence 269228,
989 28 60.9 604 4 US-10-437-963-150085 Sequence 150085,
990 28 60.9 610 4 US-10-104-047-2672 Sequence 2672, Ap
991 28 60.9 612 4 US-10-437-963-118220 Sequence 118220,
992 28 60.9 614 4 US-10-425-114-61528 Sequence 61528, A
993 28 60.9 615 4 US-10-425-114-50098 Sequence 50098, A
994 28 60.9 623 4 US-10-425-114-72444 Sequence 72444, A
995 28 60.9 623 4 US-10-425-115-22238 Sequence 22238,
996 28 60.9 626 4 US-10-437-963-190192 Sequence 190192,
997 28 60.9 626 4 US-10-437-963-197082 Sequence 197082,
998 28 60.9 633 4 US-10-437-963-198258 Sequence 198258,
999 28 60.9 639 4 US-10-424-599-233422 Sequence 233422,
1000 28 60.9 640 4 US-10-258-951-76 Sequence 76, Appl1
```

## ALIGNMENTS

```
RESULT 1
US-10-751-845-129
; Sequence 129, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicx, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; PRIOR FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 129
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-129

Query Match 100.0%; Score 46; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SLQDIETIC 9
Db 1 SLQDIETIC 9

RESULT 2
US-10-751-845-130
; Sequence 130, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicx, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
```

```
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 130
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-130
```

```
Query Match 100.0%; Score 46; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.039;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 SLQDIETIC 9
Db 1 SLQDIETIC 9
```

```
RESULT 3
US-10-751-845-152
; Sequence 152, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicx, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 152
; LENGTH: 42
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-152

Query Match 100.0%; Score 46; DB 5; Length 42;
Best Local Similarity 100.0%; Pred. No. 0.18;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SLQDIETIC 9
Db 16 SLQDIETIC 24

RESULT 4
US-10-751-845-159
; Sequence 159, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicx, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
```

```
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 159
; LENGTH: 119
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-159
```

```
Query Match          100.0%; Score 46; DB 5; Length 119;
Best Local Similarity 100.0%; Pred. No. 0.54;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 SLQDIETC 9
        |||||
Db      16 SLQDIETC 24
```

```
RESULT 5
US-10-800-023-27
; Sequence 27, Application US/10800023
; Publication No. US2004025868A1
; GENERAL INFORMATION:
; APPLICANT: Steinman, Ralph
; APPLICANT: Nussenzweig, Michel
; APPLICANT: Hawiger, Daniel
; APPLICANT: Bonifaz, Laura
; TITLE OF INVENTION: Enhanced Antigen Delivery and Modulation
; FILE REFERENCE: 600-1-08(CONCIP)
; CURRENT APPLICATION NUMBER: US/10/800,023
; PRIOR FILING DATE: 2004-03-14
; PRIOR APPLICATION NUMBER: 09/925,284
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 09/586,704
; PRIOR FILING DATE: 2000-06-05
; PRIOR APPLICATION NUMBER: PCT/US96/01383
; PRIOR FILING DATE: 1996-01-31
; PRIOR APPLICATION NUMBER: 08/381,528
; PRIOR FILING DATE: 1995-01-31
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus E6 protein
US-10-800-023-27
```

```
Query Match          100.0%; Score 46; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.73;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 SLQDIETC 9
        |||||
Db      24 SLQDIETC 32
```

```
RESULT 6
US-11-021-949-28
; Sequence 28, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
```

```
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 28
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-28
```

```
Query Match          100.0%; Score 46; DB 6; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.73;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 SLQDIETC 9
        |||||
Db      24 SLQDIETC 32
```

```
RESULT 7
US-10-472-724-6
; Sequence 6, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Cid-Arregui, Angel
; APPLICANT: Zur Hausen, Harald
; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 6
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-6
```

```
Query Match          100.0%; Score 46; DB 4; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 SLQDIETC 9
        |||||
Db      30 SLQDIETC 38
```

```
RESULT 8
US-10-751-845-157
; Sequence 157, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chiciz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
```

```
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 157
; LENGTH: 236
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
; US-10-751-845-157
```

```
Query Match          100.0%; Score 46; DB 5; Length 236;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 SLQDIETC 9
Db 133 SLQDIETC 141
```

```
RESULT 9
US-10-751-845-158
; Sequence 158, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chic, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 158
; LENGTH: 237
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
; US-10-751-845-158
```

```
Query Match          100.0%; Score 46; DB 5; Length 237;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 SLQDIETC 9
Db 134 SLQDIETC 142
```

```
RESULT 10
US-10-751-845-160
; Sequence 160, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chic, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
```

```
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 160
; LENGTH: 261
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
; US-10-751-845-160
```

```
Query Match          100.0%; Score 46; DB 5; Length 261;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 SLQDIETC 9
Db 158 SLQDIETC 166
```

```
RESULT 11
US-10-000-903-21
; Sequence 21, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 21
; LENGTH: 278
; TYPE: PRT
; ORGANISM: Homo sapien
; US-10-000-903-21
```

```
Query Match          100.0%; Score 46; DB 4; Length 278;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 SLQDIETC 9
Db 135 SLQDIETC 143
```

```
RESULT 12
US-10-899-771-21
; Sequence 21, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
and Fusion Proteins Adjuvanted with a Cps Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
```

```
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 21
; LENGTH: 278
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
; OTHER INFORMATION: influenzae B and E6 from Human papilloma virus type
; OTHER INFORMATION: 18)
US-10-899-771-21
```

```
Query Match          100.0%; Score 46; DB 5; Length 278;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 SLQDIETC 9
Db 135 SLQDIETC 143
```

```
RESULT 13
US-10-000-903-23
; Sequence 23, Application US/10000903
; Publication No. US2002018222A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; PRIOR FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-23
```

```
Query Match          100.0%; Score 46; DB 4; Length 383;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 SLQDIETC 9
Db 135 SLQDIETC 143
```

```
RESULT 14
US-10-899-771-23
; Sequence 23, Application US/10899771
; Publication No. US2005003138A1
; GENERAL INFORMATION:
; APPLICANT: Daleman, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuncted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
```

```
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
; OTHER INFORMATION: influenzae B and E6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 18)
US-10-899-771-23
```

```
Query Match          100.0%; Score 46; DB 5; Length 383;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 SLQDIETC 9
Db 135 SLQDIETC 143
```

```
RESULT 15
US-10-751-845-131
; Sequence 131, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 131
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-131
```

```
Query Match          91.3%; Score 42; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 2 LQDIETC 9
Db 1 LQDIETC 8
```

```
RESULT 16
US-11-097-143-17043
; Sequence 17043, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; FILE REFERENCE: C1000728
; CURRENT APPLICATION NUMBER: US/11/097,143
```

```

; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,537
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17043
; LENGTH: 481
; TYPE: PRT
; ORGANISM: DROSOPHILA
US-11-097-143-17043

Query Match      87.0%; Score 40; DB 6; Length 481;
Best Local Similarity 87.5%; Pred. No. 34;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      2 LODIETC 9
Db      308 LODIELTC 315

RESULT 17
US-10-243-552-539
; Sequence 539, Application US/10243552
; Publication No. US20030224379A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Yang, Yonghong
; APPLICANT: Wang, Zhiwei
; APPLICANT: Weng, Gezhi
; APPLICANT: Ma, Yundong
; TITLE OF INVENTION: Novel Nucleic Acids and
; FILE REFERENCE: 807A
; CURRENT APPLICATION NUMBER: US/10/243,552
; PRIOR APPLICATION NUMBER: US 60/322,511
; PRIOR FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: PCT/US00/35017
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/488,725
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: PCT/US01/02623
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: US 09/491,404
; PRIOR FILING DATE: 2000-01-25
; PRIOR APPLICATION NUMBER: PCT/US01/03800
; PRIOR FILING DATE: 2001-02-05
; PRIOR APPLICATION NUMBER: US 09/496,914
; PRIOR FILING DATE: 2000-02-03
; PRIOR APPLICATION NUMBER: US 09/560,875
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: PCT/US01/04927
; PRIOR FILING DATE: 2001-02-26
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 998
; SOFTWARE: pt_FL_genes Version 5.0
; SEQ ID NO 539
```

```

; LENGTH: 282
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-243-552-539

Query Match      84.8%; Score 39; DB 4; Length 282;
Best Local Similarity 66.7%; Pred. No. 30;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1 SLQDIETC 9
Db      116 SLQDIDLTC 124

RESULT 18
US-10-296-734-1354
; Sequence 1354, Application US/10296734
; Publication No. US20040054137A1
; GENERAL INFORMATION:
; APPLICANT: Thompson, Scott A
; APPLICANT: Ramshaw, Ian A
; TITLE OF INVENTION: Synthetic molecules and uses therefor
; FILE REFERENCE: Savine
; CURRENT APPLICATION NUMBER: US/10/296,734
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: AU PQT761/00
; PRIOR FILING DATE: 2000-05-26
; NUMBER OF SEQ ID NOS: 1507
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1354
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: PRAME segment 16
US-10-296-734-1354

Query Match      82.6%; Score 38; DB 4; Length 30;
Best Local Similarity 55.6%; Pred. No. 4;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1 SLQDIETC 9
Db      11 SLQDLEVC 19

RESULT 19
US-10-450-763-42351
; Sequence 42351, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: HySeq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; PRIOR FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; PRIOR APPLICATION NUMBER: 09/649,167
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 42351
; LENGTH: 378
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-450-763-42351

Query Match      82.6%; Score 38; DB 5; Length 378;
Best Local Similarity 55.6%; Pred. No. 65;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 SL0DIEITC 9
      ||::||:|
Db      329 SIEDLEVTG 337

RESULT 20
US-10-450-763-42322
; Sequence 42322, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; PRIOR FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 42322
; LENGTH: 388
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-450-763-42322

Query Match      82.6%; Score 38; DB 5; Length 388;
Best Local Similarity 55.6%; Pred. No. 67;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1 SL0DIEITC 9
      ||::||:|
Db      329 SIEDLEVTG 337

RESULT 21
US-10-097-340-254
; Sequence 254, Application US/10097340
; Publication No. US20030087250A1
; GENERAL INFORMATION:
; APPLICANT: John MONAHAN
; APPLICANT: Manjula GANNAVARAPU
; APPLICANT: Sebastian HORSCH
; APPLICANT: Shubhangi KAMATKAR
; APPLICANT: Steve G. KOVATS
; APPLICANT: Rachel E. MEYERS
; APPLICANT: Michael MORRISSEY
; APPLICANT: Peter OLANDT
; APPLICANT: Ami SEN
; APPLICANT: Peter VEIBY
; APPLICANT: Gordon B. MILLS
; APPLICANT: Robert C. BAST, Jr.
; APPLICANT: Karen LU
; APPLICANT: Rosemarie SCHMANDT
; APPLICANT: Xumei ZHAO
; APPLICANT: Karen GLATT
; TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,
; TITLE OF INVENTION: Assessment, Prevention, and Therapy of Ovarian Cancer
; FILE REFERENCE: Mri-030
; CURRENT APPLICATION NUMBER: US/10/097,340
; PRIOR FILING DATE: 2002-03-14
; PRIOR APPLICATION NUMBER: 60/276,025
; PRIOR FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 60/325,149
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/276,026
; PRIOR FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 60/324,967
; PRIOR FILING DATE: 2001/09/26

; PRIOR APPLICATION NUMBER: 60/311,732
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/325,102
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/323,580
; PRIOR FILING DATE: 2001-09-19
; NUMBER OF SEQ ID NOS: 363
; SOFTWARE: FastSeq for windows Version 4.0
; SEQ ID NO 254
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-097-340-254

Query Match      82.6%; Score 38; DB 4; Length 509;
Best Local Similarity 55.6%; Pred. No. 89;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1 SL0DIEITC 9
      ||::||:|
Db      234 SIEDLEVTG 242

RESULT 22
US-10-157-031-44
; Sequence 44, Application US/10157031
; Publication No. US2003010890A1
; GENERAL INFORMATION:
; APPLICANT: Baranova, A. V.
; APPLICANT: Yankovsky, N. K.
; APPLICANT: Kozlov, A. P.
; APPLICANT: Lobashnev, A. V.
; APPLICANT: Kulkovskaya, L. L.
; TITLE OF INVENTION: In silico screening for phenotype-associated expressed sequences
; FILE REFERENCE: 2760-103
; CURRENT APPLICATION NUMBER: US/10/157,031
; PRIOR FILING DATE: 2002-05-30
; NUMBER OF SEQ ID NOS: 415
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 44
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-157-031-44

Query Match      82.6%; Score 38; DB 4; Length 509;
Best Local Similarity 55.6%; Pred. No. 89;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1 SL0DIEITC 9
      ||::||:|
Db      234 SIEDLEVTG 242

RESULT 23
US-10-170-385-87
; Sequence 87, Application US/10170385
; Publication No. US20030203372A1
; GENERAL INFORMATION:
; APPLICANT: Ward, Neil Raymond
; APPLICANT: Mundy, Christopher Robert
; APPLICANT: Kan, On
; APPLICANT: Harris, Robert Alan
; APPLICANT: White, Jonathan
; APPLICANT: Binley, Katie Mary
; APPLICANT: Rayner, William Nigel
; APPLICANT: Naylor, Stuart
; APPLICANT: Kingsman, Susan Mary
; APPLICANT: Krige, David
; TITLE OF INVENTION: ANALYSIS METHOD
; FILE REFERENCE: 53268200100
; CURRENT APPLICATION NUMBER: US/10/170,385
; CURRENT FILING DATE: 2002-06-12
```

; PRIOR APPLICATION NUMBER: PCT/GB02/01662  
; PRIOR FILING DATE: 2002-04-08  
; PRIOR APPLICATION NUMBER: PCT/GB01/05458  
; PRIOR FILING DATE: 2001-12-10  
; NUMBER OF SEQ ID NOS: 549  
; SOFTWARE: PatSeq for Windows Version 4.0  
; SEQ ID NO 87  
; LENGTH: 509  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-170-385-87

Query Match 82.6%; Score 38; DB 4; Length 509;  
Best Local Similarity 55.6%; Pred. No. 89;  
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 SLQDIBITC 9  
|::|::|  
Db 234 SIEDLEVTC 242

RESULT 24  
US-10-117-937-77  
; Sequence 77, Application US/10117937  
; Publication No. US20030220239A1  
; GENERAL INFORMATION:  
; APPLICANT: CTL IMMUNO THERAPIES CORP.  
; APPLICANT: SIMARD, John, J.L.  
; APPLICANT: DIAMOND, David, C.  
; APPLICANT: LIU, Liping  
; APPLICANT: XIE, Zhidong  
; TITLE OF INVENTION: EPTOPPE SEQUENCES  
; FILE REFERENCE: CTIMM.027A  
; CURRENT APPLICATION NUMBER: US/10/117,937  
; CURRENT FILING DATE: 2002-04-04  
; PRIOR APPLICATION NUMBER: US 60/282,211  
; PRIOR FILING DATE: 2001-04-06  
; PRIOR APPLICATION NUMBER: US 60/337,017  
; PRIOR FILING DATE: 2001-11-07  
; PRIOR APPLICATION NUMBER: US 60/363,210  
; PRIOR FILING DATE: 2002-03-07  
; NUMBER OF SEQ ID NOS: 602  
; SOFTWARE: PatSeq for Windows Version 4.0  
; SEQ ID NO 77  
; LENGTH: 509  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-117-937-77

Query Match 82.6%; Score 38; DB 4; Length 509;  
Best Local Similarity 55.6%; Pred. No. 89;  
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 SLQDIBITC 9  
|::|::|  
Db 234 SIEDLEVTC 242

RESULT 25  
US-10-173-999-2  
; Sequence 2, Application US/10173999  
; Publication No. US20040005563A1  
; GENERAL INFORMATION:  
; APPLICANT: Mack, David H.  
; APPLICANT: Gish, Kurt C.  
; APPLICANT: Bos Biotechnology, Inc.  
; TITLE OF INVENTION: Methods of Diagnosis of Ovarian Cancer, Compositions  
; TITLE OF INVENTION: and Methods of Screening for Modulators of Ovarian  
; FILE REFERENCE: 018501-002420US  
; CURRENT APPLICATION NUMBER: US/10/173,999  
; CURRENT FILING DATE: 2002-06-17  
; PRIOR APPLICATION NUMBER: US 60/299,234

; PRIOR FILING DATE: 2001-06-18  
; PRIOR APPLICATION NUMBER: US 60/315,287  
; PRIOR FILING DATE: 2001-08-27  
; PRIOR APPLICATION NUMBER: US 60/350,666  
; PRIOR FILING DATE: 2001-11-13  
; PRIOR APPLICATION NUMBER: US 60/372,246  
; PRIOR FILING DATE: 2001-04-12  
; NUMBER OF SEQ ID NOS: 163  
; SOFTWARE: Patencin Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 509  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-173-999-2

Query Match 82.6%; Score 38; DB 4; Length 509;  
Best Local Similarity 55.6%; Pred. No. 89;  
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 SLQDIBITC 9  
|::|::|  
Db 234 SIEDLEVTC 242

RESULT 26  
US-10-058-270A-110  
; Sequence 110, Application US/10058270A  
; Publication No. US20040029114A1  
; GENERAL INFORMATION:  
; APPLICANT: Mack, David H.  
; APPLICANT: Gish, Kurt C.  
; APPLICANT: Afar, Daniel  
; APPLICANT: Bos Biotechnology, Inc.  
; TITLE OF INVENTION: Methods of Diagnosis of Breast Cancer, Compositions and  
; TITLE OF INVENTION: Methods of Screening for Modulators of Breast Cancer  
; FILE REFERENCE: 018501-005210US  
; CURRENT APPLICATION NUMBER: US/10/058,270A  
; CURRENT FILING DATE: 2002-01-24  
; PRIOR APPLICATION NUMBER: US 60/263,965  
; PRIOR FILING DATE: 2001-01-24  
; PRIOR APPLICATION NUMBER: US 60/265,928  
; PRIOR FILING DATE: 2001-02-02  
; PRIOR APPLICATION NUMBER: US 09/829,472  
; PRIOR FILING DATE: 2001-04-09  
; PRIOR APPLICATION NUMBER: US 60/282,698  
; PRIOR FILING DATE: 2001-04-09  
; PRIOR APPLICATION NUMBER: US 60/288,590  
; PRIOR FILING DATE: 2001-05-04  
; PRIOR APPLICATION NUMBER: US 60/294,443  
; PRIOR FILING DATE: 2001-05-29  
; NUMBER OF SEQ ID NOS: 141  
; SOFTWARE: Patencin Ver. 2.1  
; SEQ ID NO 110  
; LENGTH: 509  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-058-270A-110

Query Match 82.6%; Score 38; DB 4; Length 509;  
Best Local Similarity 55.6%; Pred. No. 89;  
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 SLQDIBITC 9  
|::|::|  
Db 234 SIEDLEVTC 242

RESULT 27  
US-10-296-734-830  
; Sequence 830, Application US/10296734  
; Publication No. US20040054137A1  
; GENERAL INFORMATION:  
; APPLICANT: Thompson, Scott A



APPLICANT: Ramshaw, Ian A  
TITLE OF INVENTION: Synthetic molecules and uses therefor  
FILE REFERENCE: Savine  
CURRENT APPLICATION NUMBER: US/10/296,734  
CURRENT FILING DATE: 2003-08-04  
PRIOR APPLICATION NUMBER: AU P07761/00  
PRIOR FILING DATE: 2000-05-26  
NUMBER OF SEQ ID NOS: 1507  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO 830  
LENGTH: 509  
TYPE: PRT  
ORGANISM: Artificial  
FEATURE:  
OTHER INFORMATION: PRAME consensus polypeptide  
US-10-296-734-830

Query Match 82.6%; Score 38; DB 4; Length 509;  
Best Local Similarity 55.6%; Pred. No. 89;  
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 SLQDIETC 9  
DB 234 SIEDLEVTC 242

RESULT 28  
US-10-657-022-77  
Sequence 77, Application US/10657022  
Publication No. US20040180354A1  
GENERAL INFORMATION:  
APPLICANT: Simard, John J. L.  
APPLICANT: Diamond, David C.  
APPLICANT: Liu, Liping  
APPLICANT: Liu, Zheng  
TITLE OF INVENTION: EPTOPE SEQUENCES  
FILE REFERENCE: MANMK.032A  
CURRENT APPLICATION NUMBER: US/10/657,022  
CURRENT FILING DATE: 2003-09-04  
PRIOR APPLICATION NUMBER: 60/409123  
PRIOR FILING DATE: 2002-09-06  
NUMBER OF SEQ ID NOS: 610  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 77  
LENGTH: 509  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-657-022-77

Query Match 82.6%; Score 38; DB 4; Length 509;  
Best Local Similarity 55.6%; Pred. No. 89;  
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 SLQDIETC 9  
DB 234 SIEDLEVTC 242

RESULT 29  
US-10-643-795A-92  
Sequence 92, Application US/10643795A  
Publication No. US20040241703A1  
GENERAL INFORMATION:  
APPLICANT: FREDERIC J. DESAUVAGE  
APPLICANT: GRETCHEN FRANTZ  
APPLICANT: KENNETH J. HILLAN  
APPLICANT: PAUL POLAKIS  
APPLICANT: ANDREW POLSON  
APPLICANT: VICTORIA SMITH  
APPLICANT: SUSAN D. SPENCER  
APPLICANT: THOMAS D. WU  
APPLICANT: ZEMIN ZHANG  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND

TITLE OF INVENTION: TREATMENT OF TUMOR  
FILE REFERENCE: P5026R1-US  
CURRENT APPLICATION NUMBER: US/10/643,795A  
CURRENT FILING DATE: 2003-08-19  
PRIOR APPLICATION NUMBER: US 60/404,809  
PRIOR FILING DATE: 2002-08-19  
PRIOR APPLICATION NUMBER: US 60/405,645  
PRIOR FILING DATE: 2002-08-21  
PRIOR APPLICATION NUMBER: US 60/413,192  
PRIOR FILING DATE: 2002-09-23  
PRIOR APPLICATION NUMBER: US 60/419,008  
PRIOR FILING DATE: 2002-10-15  
PRIOR APPLICATION NUMBER: US 60/426,847  
PRIOR FILING DATE: 2002-11-15  
PRIOR APPLICATION NUMBER: US 60/484,959  
PRIOR FILING DATE: 2003-07-02  
NUMBER OF SEQ ID NOS: 158  
SEQ ID NO 92  
LENGTH: 509  
TYPE: PRT  
ORGANISM: Homo sapien  
US-10-643-795A-92

Query Match 82.6%; Score 38; DB 5; Length 509;  
Best Local Similarity 55.6%; Pred. No. 89;  
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 SLQDIETC 9  
DB 234 SIEDLEVTC 242

RESULT 30  
US-10-723-860-4358  
Sequence 4358, Application US/10723860  
Publication No. US20040253606A1  
GENERAL INFORMATION:  
APPLICANT: Aziz, Natasha  
APPLICANT: Ginsburg, Wendy M.  
APPLICANT: Zlotnik, Albert  
TITLE OF INVENTION: Methods of Diagnosis of Soft Tissue Sarcoma, Compositions &  
TITLE OF INVENTION: Methods for Screening for Soft Tissue Sarcoma Modulators  
FILE REFERENCE: 05882.0193.NPUS01  
CURRENT APPLICATION NUMBER: US/10/723,860  
CURRENT FILING DATE: 2003-11-26  
PRIOR APPLICATION NUMBER: 60/429,739  
PRIOR FILING DATE: 2002-11-26  
NUMBER OF SEQ ID NOS: 8393  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO 4358  
LENGTH: 509  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-723-860-4358

Query Match 82.6%; Score 38; DB 5; Length 509;  
Best Local Similarity 55.6%; Pred. No. 89;  
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 SLQDIETC 9  
DB 234 SIEDLEVTC 242

RESULT 31  
US-10-482-029-136  
Sequence 136, Application US/10482029  
Publication No. US20050037445A1  
GENERAL INFORMATION:  
APPLICANT: ODIN medical A/S  
TITLE OF INVENTION: Oncology drug innovation  
FILE REFERENCE: P 573 PC00  
CURRENT APPLICATION NUMBER: US/10/482,029

```
/ CURRENT FILING DATE: 2003-12-29
/ NUMBER OF SEQ ID NOS: 437
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 136
/ LENGTH: 509
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-482-029-136
```

```
Query Match      82.6%; Score 38; DB 5; Length 509;
Best Local Similarity 55.6%; Pred. No. 89;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

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QY      1 SLQDIETC 9
         |::|::|
Db       234 STEDLEVC 242
```

```
RESULT 32
US-10-948-518-92
/ Sequence 92, Application US/10948518
/ Publication No. US20050064492A1
/ GENERAL INFORMATION:
```

```
/ APPLICANT: FREDERIC J. DESAUVAGE
/ APPLICANT: KENNETH J. FRANTZ
/ APPLICANT: KENNETH J. HILLAN
/ APPLICANT: PAUL POLAKIS
/ APPLICANT: ANDREW POLSON
/ APPLICANT: VICTORIA SMITH
/ APPLICANT: SUSAN D. SPENCER
/ APPLICANT: THOMAS D. WU
```

```
/ APPLICANT: ZEMIN ZHANG
/ TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND
/ TITLE OF INVENTION: TREATMENT OF TUMOR
/ FILE REFERENCE: P5026R1-US
```

```
/ CURRENT APPLICATION NUMBER: US/10/948,518
/ CURRENT FILING DATE: 2004-09-22
/ PRIOR APPLICATION NUMBER: US/10/643,795
/ PRIOR FILING DATE: 2003-08-19
/ PRIOR APPLICATION NUMBER: US 60/404,809
/ PRIOR FILING DATE: 2002-08-19
/ PRIOR APPLICATION NUMBER: US 60/405,645
/ PRIOR FILING DATE: 2002-08-21
/ PRIOR APPLICATION NUMBER: US 60/413,192
/ PRIOR FILING DATE: 2002-09-23
/ PRIOR APPLICATION NUMBER: US 60/419,008
/ PRIOR FILING DATE: 2002-10-15
/ PRIOR APPLICATION NUMBER: US 60/426,847
/ PRIOR FILING DATE: 2002-11-15
/ PRIOR APPLICATION NUMBER: US 60/484,959
/ PRIOR FILING DATE: 2003-07-02
/ NUMBER OF SEQ ID NOS: 158
```

```
/ SEQ ID NO 92
/ LENGTH: 509
/ TYPE: PRT
/ ORGANISM: Homo sapien
US-10-948-518-92
```

```
Query Match      82.6%; Score 38; DB 5; Length 509;
Best Local Similarity 55.6%; Pred. No. 89;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 SLQDIETC 9
         |::|::|
Db       234 STEDLEVC 242
```

```
RESULT 33
US-10-794-514A-451
/ Sequence 451, Application US/10794514A
/ Publication No. US20050112134A1
/ GENERAL INFORMATION:
```

```
/ APPLICANT: Gradalis, Thomas
```

```
/ APPLICANT: Laue, Reiner
/ APPLICANT: Diegel, Michael
/ APPLICANT: Vidovic, Damir
/ TITLE OF INVENTION: Compositions and Methods Employing Alternative
/ TITLE OF INVENTION: Reading Frame Polypeptides for the Treatment of
/ TITLE OF INVENTION: Cancer and Infectious Disease
/ FILE REFERENCE: 11311.1003U
/ CURRENT APPLICATION NUMBER: US/10/794,514A
/ CURRENT FILING DATE: 2004-03-05
/ NUMBER OF SEQ ID NOS: 733
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 451
/ LENGTH: 509
/ TYPE: PRT
/ ORGANISM: Human
US-10-794-514A-451
```

```
Query Match      82.6%; Score 38; DB 5; Length 509;
Best Local Similarity 55.6%; Pred. No. 89;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 SLQDIETC 9
         |::|::|
Db       234 STEDLEVC 242
```

```
RESULT 34
US-10-871-708-8
/ Sequence 8, Application US/10871708
/ Publication No. US20050118186A1
/ GENERAL INFORMATION:
```

```
/ APPLICANT: Chiang, Chih-Sheng
/ TITLE OF INVENTION: COMBINATIONS OF TUMOR-ASSOCIATED
/ TITLE OF INVENTION: ANTIGENS IN COMPOSITIONS FOR VARIOUS TYPES OF CANCERS
/ FILE REFERENCE: MANUK.035A
```

```
/ CURRENT APPLICATION NUMBER: US/10/871,708
/ CURRENT FILING DATE: 2004-06-17
/ PRIOR APPLICATION NUMBER: 60/479,554
/ PRIOR FILING DATE: 2003-06-17
/ NUMBER OF SEQ ID NOS: 18
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 8
/ LENGTH: 509
/ TYPE: PRT
/ ORGANISM: Preferentially expressed antigen in melanoma
US-10-871-708-8
```

```
Query Match      82.6%; Score 38; DB 5; Length 509;
Best Local Similarity 55.6%; Pred. No. 89;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 SLQDIETC 9
         |::|::|
Db       234 STEDLEVC 242
```

```
RESULT 35
US-10-756-149-5765
/ Sequence 5765, Application US/10756149
/ Publication No. US20050181375A1
/ GENERAL INFORMATION:
```

```
/ APPLICANT: Aziz, Natsaba
/ APPLICANT: Zlotnik, Albert
/ TITLE OF INVENTION: NOVEL METHODS OF DIAGNOSIS OF METASTATIC CANCER, COMPOSITIONS AND
/ TITLE OF INVENTION: METHODS OF SCREENING FOR MODULATORS OF METASTATIC CANCER
/ FILE REFERENCE: file
/ CURRENT APPLICATION NUMBER: US/10/756,149
/ CURRENT FILING DATE: 2004-01-12
/ NUMBER OF SEQ ID NOS: 5818
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 5765
/ LENGTH: 509
/ TYPE: PRT
```

```

; ORGANISM: Homo sapiens
US-10-756-149-5765

Query Match      82.6%; Score 38; DB 5; Length 509;
Best Local Similarity 55.6%; Pred. No. 89;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      1 SL0DIEITC 9
Db      234 SIEDLEVTC 242

RESULT 36
US-11-067-064-77
; Sequence 77, Application US/11067064
; Publication No. US2005014144A1
; GENERAL INFORMATION:
; APPLICANT: SIMARD, John, J.L.
; APPLICANT: DIAMOND, David, C.
; APPLICANT: LIU, Zheng
; TITLE OF INVENTION: EPITOPE SEQUENCES
; FILE REFERENCE: MANMK.027C2
; CURRENT APPLICATION NUMBER: US/11/067,064
; CURRENT FILING DATE: 2005-02-25
; PRIOR APPLICATION NUMBER: US 60/282,211
; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: US 60/337,017
; PRIOR FILING DATE: 2001-11-07
; PRIOR APPLICATION NUMBER: US 60/363,210
; PRIOR FILING DATE: 2002-03-07
; PRIOR APPLICATION NUMBER: US 10/117937
; PRIOR FILING DATE: 2002-04-04
; NUMBER OF SEQ ID NOS: 602
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 77
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-067-064-77

Query Match      82.6%; Score 38; DB 6; Length 509;
Best Local Similarity 55.6%; Pred. No. 89;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      1 SL0DIEITC 9
Db      234 SIEDLEVTC 242

RESULT 37
US-11-050-926-254
; Sequence 254, Application US/11050926
; Publication No. US20050214831A1
; GENERAL INFORMATION:
; APPLICANT: John MONAHAN
; APPLICANT: Manjula GANNAVAPU
; APPLICANT: Sebastian HOESCH
; APPLICANT: Shudhangi KAMATKAR
; APPLICANT: Steve G. KOVATS
; APPLICANT: Rachel E. MEYERS
; APPLICANT: Michael MORRISSEY
; APPLICANT: Peter OLANDT
; APPLICANT: Ami SEN
; APPLICANT: Peter VEIBY
; APPLICANT: Gordon B. MILLIS
; APPLICANT: Robert C. BAST, Jr.
; APPLICANT: Karen LU
; APPLICANT: Rosemarie SCHMANDT
; APPLICANT: Xumei ZHAO
; APPLICANT: Karen GLATT
; TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,
; TITLE OF INVENTION: Assessment, Prevention, and Therapy of Ovarian Cancer
; FILE REFERENCE: MRI-030
```

```

; CURRENT APPLICATION NUMBER: US/11/050,926
; CURRENT FILING DATE: 2005-02-04
; PRIOR APPLICATION NUMBER: US/10/097,340
; PRIOR FILING DATE: 2002-03-14
; PRIOR APPLICATION NUMBER: 60/276,025
; PRIOR FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 60/325,149
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/276,026
; PRIOR FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 60/324,967
; PRIOR FILING DATE: 2001/09/26
; PRIOR APPLICATION NUMBER: 60/311,732
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/325,102
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/323,580
; PRIOR FILING DATE: 2001-09-19
; NUMBER OF SEQ ID NOS: 363
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 254
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-050-926-254

Query Match      82.6%; Score 38; DB 6; Length 509;
Best Local Similarity 55.6%; Pred. No. 89;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      1 SL0DIEITC 9
Db      234 SIEDLEVTC 242

RESULT 38
US-11-067-159-77
; Sequence 77, Application US/11067159
; Publication No. US20050221440A1
; GENERAL INFORMATION:
; APPLICANT: SIMARD, John, J.L.
; APPLICANT: DIAMOND, David, C.
; APPLICANT: LIU, Zheng
; TITLE OF INVENTION: EPITOPE SEQUENCES
; FILE REFERENCE: MANMK.027C1
; CURRENT APPLICATION NUMBER: US/11/067,159
; CURRENT FILING DATE: 2005-02-25
; PRIOR APPLICATION NUMBER: US 60/282,211
; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: US 60/337,017
; PRIOR FILING DATE: 2001-11-07
; PRIOR APPLICATION NUMBER: US 60/363,210
; PRIOR FILING DATE: 2002-03-07
; PRIOR APPLICATION NUMBER: US 10/117937
; PRIOR FILING DATE: 2002-04-04
; NUMBER OF SEQ ID NOS: 602
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 77
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-067-159-77

Query Match      82.6%; Score 38; DB 6; Length 509;
Best Local Similarity 55.6%; Pred. No. 89;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      1 SL0DIEITC 9
Db      234 SIEDLEVTC 242

RESULT 39
```

US-11-097-143-42198  
; Sequence 42198, Application US/11097143  
; Publication No. US20050208558A1  
; GENERAL INFORMATION:  
; APPLICANT: Venter, J. Craig  
; APPLICANT: et al.  
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID  
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE  
; FILE REFERENCE: CL000728  
; CURRENT APPLICATION NUMBER: US/11/097,143  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: 60/157,832  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: 60/160,191  
; PRIOR FILING DATE: 1999-10-19  
; PRIOR APPLICATION NUMBER: 60/161,932  
; PRIOR FILING DATE: 1999-10-28  
; PRIOR APPLICATION NUMBER: 60/164,769  
; PRIOR FILING DATE: 1999-11-12  
; PRIOR APPLICATION NUMBER: 60/173,383  
; PRIOR FILING DATE: 1999-12-28  
; PRIOR APPLICATION NUMBER: 60/175,693  
; PRIOR FILING DATE: 2000-01-12  
; PRIOR APPLICATION NUMBER: 60/184,831  
; PRIOR FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: 60/191,637  
; PRIOR FILING DATE: 2000-03-23  
; NUMBER OF SEQ ID NOS: 4308  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 42198  
; LENGTH: 530  
; TYPE: PRT  
; ORGANISM: DROSOPHILA  
US-11-097-143-42198

Query Match 82.6%; Score 38; DB 6; Length 530;  
Best Local Similarity 77.8%; Pred. No. 93;  
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
QY 1 SLDDIETC 9  
Db 143 SLDDIETC 151  
RESULT 40  
US-10-296-734-1454  
; Sequence 1454, Application US/10296734  
; Publication No. US20040054137A1  
; GENERAL INFORMATION:  
; APPLICANT: Thompson, Scott A  
; APPLICANT: Ramshaw, Ian A  
; TITLE OF INVENTION: Synthetic molecules and uses therefor  
; FILE REFERENCE: Savine  
; CURRENT APPLICATION NUMBER: US/10/296,734  
; CURRENT FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: AU P07761/00  
; PRIOR FILING DATE: 2000-05-26  
; NUMBER OF SEQ ID NOS: 1507  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 1454  
; LENGTH: 3541  
; TYPE: PRT  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: Melanoma cancer specific savine  
US-10-296-734-1454

Query Match 82.6%; Score 38; DB 4; Length 3541;  
Best Local Similarity 55.6%; Pred. No. 6,9e+02;  
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;  
QY 1 SLDDIETC 9

Db 2171 SLDDIETC 2179  
RESULT 41  
US-10-389-647-605  
; Sequence 605, Application US/10389647  
; Publication No. US20040033549A1  
; GENERAL INFORMATION:  
; APPLICANT: GREENBERG, E. Peter  
; APPLICANT: SCHUSTER, Martin  
; APPLICANT: LOSTROH, Candi  
; TITLE OF INVENTION: QUORUM SENSING SIGNALING IN BACTERIA  
; FILE REFERENCE: UT2-038CP  
; CURRENT APPLICATION NUMBER: US/10/389,647  
; CURRENT FILING DATE: 2003-03-14  
; PRIOR APPLICATION NUMBER: 09/653730  
; PRIOR FILING DATE: 2000-09-01  
; PRIOR APPLICATION NUMBER: 60/153022  
; PRIOR FILING DATE: 1999-09-03  
; NUMBER OF SEQ ID NOS: 710  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 605  
; LENGTH: 99  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-10-389-647-605

Query Match 78.3%; Score 36; DB 4; Length 99;  
Best Local Similarity 75.0%; Pred. No. 38;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LDDIETC 9  
Db 4 LDDIETC 11

RESULT 42  
US-10-767-701-58324  
; Sequence 58324, Application US/10767701  
; Publication No. US20040172684A1  
; GENERAL INFORMATION:  
; APPLICANT: Kovacic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement  
; FILE REFERENCE: 38-21(5353)B  
; CURRENT APPLICATION NUMBER: US/10/767,701  
; CURRENT FILING DATE: 2004-01-29  
; NUMBER OF SEQ ID NOS: 63128  
; SEQ ID NO 58324  
; LENGTH: 162  
; TYPE: PRT  
; ORGANISM: Sorghum bicolor  
; FEATURE:  
; OTHER INFORMATION: Clone ID: 30978582.pep  
US-10-767-701-58324

Query Match 78.3%; Score 36; DB 4; Length 162;  
Best Local Similarity 62.5%; Pred. No. 64;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 2 LDDIETC 9  
Db 102 LDDIETC 109

RESULT 43  
US-10-437-963-184385  
; Sequence 184385, Application US/10437963  
; Publication No. US20040123343A1  
; GENERAL INFORMATION:

```

; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 184385
; LENGTH: 454
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_81382C.1.pep
US-10-437-963-184385
```

```
Query Match      78.3%; Score 36; DB 4; Length 454;
Best Local Similarity 62.5%; Pred. No. 1.9e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      2 LQDIETTC 9
      |||::|||
Db      94 LQDLDVTC 101
```

```

RESULT 44
US-10-425-115-227314
; Sequence 227314, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 227314
; LENGTH: 462
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_138903C.1.pep
US-10-425-115-227314
```

```
Query Match      78.3%; Score 36; DB 4; Length 462;
Best Local Similarity 62.5%; Pred. No. 2e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      2 LQDIETTC 9
      |||::|||
Db      102 LQDLDVTC 109
```

```

RESULT 45
US-10-767-701-31617
; Sequence 31617, Application US/10767701
; Publication No. US20040172684A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
```

```

; FILE REFERENCE: 38-21(53535)B
; CURRENT APPLICATION NUMBER: US/10/767,701
; CURRENT FILING DATE: 2004-01-29
; NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 31617
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Sorghum bicolor
; FEATURE:
; OTHER INFORMATION: Clone ID: SORBI-28MAY03-C101117_1.pep
US-10-767-701-31617
```

```
Query Match      76.1%; Score 35; DB 4; Length 67;
Best Local Similarity 77.8%; Pred. No. 39;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 SLQDIETTC 9
      |||::|||
Db      13 SSQDINITC 21
```

```

RESULT 46
US-11-021-949-29
; Sequence 29, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SABIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-29
```

```
Query Match      76.1%; Score 35; DB 6; Length 158;
Best Local Similarity 66.7%; Pred. No. 98;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 SLQDIETTC 9
      |||::|||
Db      24 SLQDVSIAC 32
```

```

RESULT 47
US-10-425-115-246840
; Sequence 246840, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 246840
; LENGTH: 179
; TYPE: PRT
```

```
/ ORGANISM: Zea mays
/ FEATURE:
/ NAME/KEY: unsure
/ LOCATION: (1)..(179)
/ OTHER INFORMATION: unsure at all Xaa locations
/ FEATURE:
/ OTHER INFORMATION: Clone ID: MRT4577_156700C.1.pep
US-10-425-115-246840
```

```
Query Match          76.1%; Score 35; DB 4; Length 179;
Best Local Similarity 66.7%; Pred. No. 1.1e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 SLQDIETC 9
       : |||||
Db      164 TLTDIELTC 172
```

```
RESULT 48
US-10-424-599-205020
/ Sequence 205020, Application US/10424599
/ Publication No. US20040031072A1
/ GENERAL INFORMATION:
/ APPLICANT: La Rosa, Thomas J
/ APPLICANT: Kovalic, David K
/ APPLICANT: Zhou, Yihua
/ APPLICANT: Cao, Yongwei
/ TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
/ TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
/ FILE REFERENCE: 38-21(53223)B
/ CURRENT APPLICATION NUMBER: US/10/424,599
/ NUMBER OF SEQ ID NOS: 285684
/ SEQ ID NO 205020
/ LENGTH: 195
/ TYPE: PRT
/ ORGANISM: Glycine max
/ FEATURE:
/ NAME/KEY: unsure
/ LOCATION: (1)..(195)
/ OTHER INFORMATION: unsure at all Xaa locations
/ FEATURE:
/ OTHER INFORMATION: Clone ID: PAT_MRT3847_27160C.1.pep
US-10-424-599-205020
```

```
Query Match          76.1%; Score 35; DB 4; Length 195;
Best Local Similarity 55.6%; Pred. No. 1.2e+02;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 SLQDIETC 9
       : |||||
Db      158 SLQDLDLSC 166
```

```
RESULT 49
US-10-032-585-7389
/ Sequence 7389, Application US/10032585
/ Publication No. US20030180953A1
/ GENERAL INFORMATION:
/ APPLICANT: Terry, Roemer D.
/ APPLICANT: Bo, Jiahng
/ APPLICANT: Charles, Boone
/ APPLICANT: Howard, Bussey
/ TITLE OF INVENTION: Gene Disruption Methodologies for Drug Target Discovery
/ FILE REFERENCE: 10182-005-999
/ CURRENT APPLICATION NUMBER: US/10/032,585
/ NUMBER OF SEQ ID NOS: 8000
/ SOFTWARE: Patentin version 3.1
/ SEQ ID NO 7389
/ LENGTH: 1070
/ TYPE: PRT
/ ORGANISM: Candida albicans
```

```
US-10-032-585-7389
```

```
Query Match          76.1%; Score 35; DB 4; Length 1070;
Best Local Similarity 85.7%; Pred. No. 7.4e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      3 QDIETC 9
       : |||||
Db      593 EDIETC 599
```

```
RESULT 50
US-10-437-963-131742
/ Sequence 131742, Application US/10437963
/ Publication No. US20040123343A1
/ GENERAL INFORMATION:
/ APPLICANT: La Rosa, Thomas J.
/ APPLICANT: Kovalic, David K.
/ APPLICANT: Zhou, Yihua
/ APPLICANT: Cao, Yongwei
/ APPLICANT: Wu, Wei
/ APPLICANT: Bouharov, Andrey A.
/ APPLICANT: Barbazuk, Brad
/ APPLICANT: Li, Ping
/ TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
/ TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
/ FILE REFERENCE: 38-21(53221)B
/ CURRENT APPLICATION NUMBER: US/10/437,963
/ NUMBER OF SEQ ID NOS: 2003-05-14
/ SEQ ID NO 131742
/ LENGTH: 2478
/ TYPE: PRT
/ ORGANISM: Oryza sativa
/ FEATURE:
/ OTHER INFORMATION: Clone ID: PAT_MRT4530_3377C.1.pep
US-10-437-963-131742
```

```
Query Match          76.1%; Score 35; DB 4; Length 2478;
Best Local Similarity 87.5%; Pred. No. 1.8e+03;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      2 LQDIETC 9
       : |||||
Db      2230 LQDIETC 2237
```

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Search completed: May 5, 2006, 07:55:53
Job time : 60.9 secs
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GenCore version 5.1.7  
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

OM protein - protein search, using sw model

Run on: May 5, 2006, 07:46:05 ; Search time 8.4 Seconds  
(Without alignments)  
49.591 Million cell updates/sec

Title: US-08-170-344-22

Perfect score: 46

Sequence: 1 SIQDIRTC 9

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database :

Published Applications\_AA\_New:\*  
1: /SIDS5/ptodata/1/pubpaa/US08\_NEW\_PUB.pep1:\*  
2: /SIDS5/ptodata/1/pubpaa/US06\_NEW\_PUB.pep1:\*  
3: /SIDS5/ptodata/1/pubpaa/US07\_NEW\_PUB.pep1:\*  
4: /SIDS5/ptodata/1/pubpaa/US08\_NEW\_PUB.pep1:\*  
5: /SIDS5/ptodata/1/pubpaa/US09\_NEW\_PUB.pep1:\*  
6: /SIDS5/ptodata/1/pubpaa/US05\_NEW\_PUB.pep1:\*  
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8: /SIDS5/ptodata/1/pubpaa/US11\_NEW\_PUB.pep1:\*  
9: /SIDS5/ptodata/1/pubpaa/US12\_NEW\_PUB.pep1:\*  
10: /SIDS5/ptodata/1/pubpaa/US11\_NEW\_PUB.pep1:\*  
11: /SIDS5/ptodata/1/pubpaa/US11\_NEW\_PUB.pep1:\*  
12: /SIDS5/ptodata/1/pubpaa/US60\_NEW\_PUB.pep1:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	46	100.0	15	9	US-10-530-061-1659
2	46	100.0	158	9	US-10-530-253-15
3	38	82.6	509	11	US-11-155-288-8
4	36	78.3	10	9	US-10-530-061-55
5	36	78.3	10	9	US-10-530-061-112
6	35	76.1	158	9	US-10-530-253-20
7	35	76.1	673	11	US-11-188-288-612
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13	33	71.7	143	9	US-10-995-951A-28
14	33	71.7	143	9	US-10-995-951A-30
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16	33	71.7	143	11	US-11-067-425A-65
17	33	71.7	633	11	US-11-188-298-2647
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21	32	69.6	304	11	US-11-096-568A-22478

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23	32	69.6	317	11	US-11-096-568A-19985	Sequence 19985, A
24	32	69.6	314	11	US-11-096-568A-19984	Sequence 19984, A
25	32	69.6	322	11	US-11-096-568A-5395	Sequence 5395, Ap
26	32	69.6	329	11	US-11-096-568A-5395	Sequence 5395, Ap
27	32	69.6	339	11	US-11-096-568A-5394	Sequence 5394, Ap
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30	31	67.4	338	11	US-11-096-568A-10572	Sequence 10572, A
31	31	67.4	381	11	US-11-096-568A-10571	Sequence 10571, A
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33	31	67.4	387	11	US-11-087-099-9326	Sequence 9326, Ap
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37	30	65.2	318	11	US-11-087-099-1029	Sequence 1029, Ap
38	30	65.2	378	11	US-11-087-099-8872	Sequence 8872, Ap
39	30	65.2	378	11	US-11-087-099-11183	Sequence 11183, A
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49	30	65.2	2230	9	US-10-511-096-4	Sequence 4, App1
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51	30	65.2	2252	9	US-10-511-096-8	Sequence 8, App1
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53	29	63.0	95	9	US-10-219-061-82	Sequence 82, App1
54	29	63.0	95	9	US-10-219-062-82	Sequence 82, App1
55	29	63.0	95	9	US-10-219-064-82	Sequence 82, App1
56	29	63.0	95	9	US-10-223-134-82	Sequence 82, App1
57	29	63.0	206	11	US-11-096-568A-7790	Sequence 7790, Ap
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72	29	63.0	703	11	US-11-119-569-19	Sequence 19, App1
73	29	63.0	89	11	US-11-145-631-14	Sequence 14, App1
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75	28	60.9	94	11	US-11-053-076-184	Sequence 184, App
76	28	60.9	100	11	US-11-207-078-192	Sequence 192, App
77	28	60.9	103	11	US-11-000-463-740	Sequence 740, App
78	28	60.9	111	11	US-11-000-463-268	Sequence 268, App
79	28	60.9	122	11	US-11-019-711-103	Sequence 103, App
80	28	60.9	124	11	US-11-096-568A-14484	Sequence 14484, A
81	28	60.9	132	11	US-11-096-568A-14483	Sequence 14483, A
82	28	60.9	135	11	US-11-096-568A-14922	Sequence 14922, A
83	28	60.9	166	11	US-11-172-740-902	Sequence 902, App
84	28	60.9	166	11	US-11-070-575-5	Sequence 5, App1
85	28	60.9	185	11	US-11-079-463-7852	Sequence 7852, App
86	28	60.9	185	11	US-11-096-568A-348	Sequence 348, App
87	28	60.9	185	11	US-11-096-568A-349	Sequence 349, App
88	28	60.9	186	11	US-11-096-568A-31916	Sequence 31916, A
89	28	60.9	187	11	US-11-096-568A-31915	Sequence 31915, A
90	28	60.9	193	11	US-11-096-568A-14921	Sequence 14921, A
91	28	60.9	204	11	US-11-172-740-86	Sequence 86, App1
92	28	60.9	204	11	US-11-172-740-921	Sequence 921, App
93	28	60.9	211	11	US-11-096-568A-31915	Sequence 31915, A
94	28	60.9	218	11	US-11-218-821-8	Sequence 8, App1





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244	27	58.7	513	9	US-10-455-772-58	Sequence 58, Appl	317	26	56.5	106	11	US-11-199-733-448	Sequence 448, App
245	27	58.7	513	9	US-10-455-772-60	Sequence 60, Appl	318	26	56.5	108	11	US-11-049-536-510	Sequence 510, App
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252	27	58.7	513	9	US-10-455-772-74	Sequence 74, Appl	325	26	56.5	111	11	US-11-049-536-94	Sequence 94, Appl
253	27	58.7	522	9	US-10-517-939-286	Sequence 286, App	326	26	56.5	111	11	US-11-049-536-100	Sequence 100, Appl
254	27	58.7	531	11	US-11-087-099-7252	Sequence 7252, App	327	26	56.5	111	11	US-11-199-739-66	Sequence 66, Appl
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258	27	58.7	577	9	US-10-493-909-66	Sequence 66, Appl	331	26	56.5	112	11	US-11-049-536-70	Sequence 70, Appl
259	27	58.7	593	11	US-11-087-099-3671	Sequence 3671, Ap	332	26	56.5	112	11	US-11-049-536-82	Sequence 82, Appl
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267	27	58.7	653	11	US-11-079-463-8199	Sequence 8199, Ap	340	26	56.5	113	11	US-11-199-733-62	Sequence 62, Appl
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270	27	58.7	747	9	US-10-784-004-515	Sequence 315, App	343	26	56.5	118	11	US-11-188-298-3379	Sequence 3379, Ap
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272	27	58.7	758	11	US-11-024-959-347	Sequence 347, App	345	26	56.5	122	9	US-10-993-943-106	Sequence 106, App
273	27	58.7	759	11	US-11-096-568A-29706	Sequence 29706, A	346	26	56.5	122	11	US-11-072-512-3515	Sequence 3515, Ap
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278	27	58.7	825	11	US-11-087-099-1341	Sequence 1341, Ap	351	26	56.5	139	11	US-11-169-041-201	Sequence 201, App
279	27	58.7	825	11	US-11-188-298-1365	Sequence 1365, Ap	352	26	56.5	142	9	US-10-995-951A-26	Sequence 26, Appl
280	27	58.7	825	11	US-11-188-298-22093	Sequence 22093, A	353	26	56.5	142	9	US-10-995-951A-29	Sequence 29, Appl
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287	27	58.7	927	11	US-11-188-298-9708	Sequence 4, Appl1	360	26	56.5	149	11	US-11-067-425A-4	Sequence 18071, A
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291	27	58.7	945	9	US-10-973-115B-146	Sequence 146, App	364	26	56.5	173	11	US-11-188-298-8372	Sequence 3173, Ap
292	27	58.7	945	9	US-10-137-873A-146	Sequence 146, App	365	26	56.5	179	11	US-11-087-099-3173	Sequence 7422, Ap
293	27	58.7	945	9	US-10-152-370-146	Sequence 38, Appl	366	26	56.5	197	11	US-11-188-298-7422	Sequence 532, App
294	27	58.7	945	11	US-11-019-711-38	Sequence 20, Appl	367	26	56.5	202	11	US-11-055-822-532	Sequence 21632, A
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311	26	56.5	66	11	US-11-156-084-55	Sequence 55, Appl	384	26	56.5	247	11	US-11-172-740-1483	
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388	26	56.5	248	11	US-11-087-099-5363	Sequence 5363, Ap	461	26	56.5	464	9	US-10-453-372-772	Sequence 772, Ap
389	26	56.5	249	11	US-11-113-424-30	Sequence 30, Appl	462	26	56.5	464	9	US-10-453-372-774	Sequence 774, Ap
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391	26	56.5	251	11	US-11-054-515-1232	Sequence 1232, Ap	464	26	56.5	466	9	US-10-194-487-316	Sequence 316, Appl
392	26	56.5	251	11	US-11-266-444-856	Sequence 856, App	465	26	56.5	466	9	US-10-195-889-316	Sequence 316, App
393	26	56.5	251	11	US-11-266-444-1232	Sequence 1232, Ap	466	26	56.5	466	9	US-10-195-889-316	Sequence 316, App
394	26	56.5	253	11	US-11-054-515-1526	Sequence 1526, Ap	467	26	56.5	466	9	US-10-195-889-316	Sequence 316, App
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396	26	56.5	257	11	US-11-079-463-8138	Sequence 8138, Ap	469	26	56.5	466	11	US-11-103-195-104	Sequence 104, App
397	26	56.5	258	9	US-10-512-184-26	Sequence 26, Appl	470	26	56.5	472	9	US-10-511-989-163	Sequence 163, App
398	26	56.5	259	11	US-11-072-512-2303	Sequence 2303, Ap	471	26	56.5	472	11	US-11-114-301-2	Sequence 2, Appl1
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403	26	56.5	273	11	US-11-113-424-75	Sequence 75, Appl	476	26	56.5	491	11	US-11-280-416-5	Sequence 5, Appl1
404	26	56.5	273	11	US-11-178-230-8	Sequence 8, Appl1	477	26	56.5	493	9	US-10-995-561-611	Sequence 611, App
405	26	56.5	274	11	US-11-072-512-2191	Sequence 2191, Ap	478	26	56.5	495	11	US-11-072-512-2860	Sequence 2860, Ap
406	26	56.5	283	11	US-11-188-298-4940	Sequence 4940, Ap	479	26	56.5	504	9	US-10-784-004-427	Sequence 427, App
407	26	56.5	283	11	US-11-264-096-821	Sequence 821, App	480	26	56.5	504	9	US-10-784-004-948	Sequence 948, App
408	26	56.5	284	9	US-10-892-379-10	Sequence 10, Appl	481	26	56.5	517	11	US-11-051-720-1432	Sequence 1432, Ap
409	26	56.5	284	9	US-10-453-372-790	Sequence 790, App	482	26	56.5	518	11	US-11-226-701-13	Sequence 13, Appl
410	26	56.5	290	9	US-10-453-372-776	Sequence 776, App	483	26	56.5	533	9	US-10-714-995-28	Sequence 28, Appl
411	26	56.5	290	9	US-10-467-657-424	Sequence 424, Ap	484	26	56.5	535	9	US-10-995-561-610	Sequence 610, App
412	26	56.5	302	9	US-10-453-372-780	Sequence 780, App	485	26	56.5	535	9	US-10-493-909-84	Sequence 84, Appl
413	26	56.5	302	9	US-10-453-372-782	Sequence 782, App	486	26	56.5	537	9	US-10-330-773-263	Sequence 263, Appl
414	26	56.5	302	9	US-10-453-372-788	Sequence 788, App	487	26	56.5	538	9	US-10-493-909-99	Sequence 99, Appl
415	26	56.5	302	9	US-10-453-372-792	Sequence 792, App	488	26	56.5	544	11	US-11-188-298-4372	Sequence 4372, Ap
416	26	56.5	302	11	US-11-156-084-334	Sequence 334, App	489	26	56.5	547	11	US-11-087-099-4235	Sequence 4235, Ap
417	26	56.5	302	11	US-11-264-096-2151	Sequence 2151, Ap	490	26	56.5	548	9	US-10-493-909-77	Sequence 77, Appl
418	26	56.5	306	11	US-11-052-534A-259	Sequence 259, App	491	26	56.5	548	9	US-10-493-909-78	Sequence 78, Appl
419	26	56.5	306	11	US-11-188-298-14547	Sequence 14547, A	492	26	56.5	555	11	US-11-072-512-2011	Sequence 2011, Ap
420	26	56.5	306	11	US-11-123-241-12	Sequence 12, Appl	493	26	56.5	557	9	US-10-194-487-326	Sequence 326, App
421	26	56.5	308	11	US-11-096-568A-28741	Sequence 28741, A	494	26	56.5	557	9	US-10-195-889-336	Sequence 326, App
422	26	56.5	309	9	US-10-453-372-778	Sequence 778, App	495	26	56.5	557	9	US-10-195-889-336	Sequence 326, App
423	26	56.5	310	11	US-11-096-568A-21631	Sequence 21631, A	496	26	56.5	557	11	US-11-019-711-95	Sequence 95, Appl
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426	26	56.5	319	11	US-11-087-099-1984	Sequence 1984, Ap	499	26	56.5	560	9	US-10-784-004-1217	Sequence 1217, Ap
427	26	56.5	321	9	US-10-467-657-1710	Sequence 1710, Ap	500	26	56.5	561	11	US-11-188-298-11009	Sequence 11009, A
428	26	56.5	323	9	US-10-485-517-251	Sequence 251, App	501	26	56.5	563	9	US-10-821-234-1067	Sequence 1067, Ap
429	26	56.5	326	11	US-11-096-568A-3049	Sequence 3049, Ap	502	26	56.5	564	8	US-10-511-937-2557	Sequence 2557, Ap
430	26	56.5	327	9	US-10-512-184-62	Sequence 62, Appl	503	26	56.5	570	9	US-10-821-234-1601	Sequence 1601, Ap
431	26	56.5	327	9	US-10-512-184-64	Sequence 64, Appl	504	26	56.5	572	9	US-10-218-784-42	Sequence 42, Appl
432	26	56.5	328	11	US-10-512-184-63	Sequence 63, Appl	505	26	56.5	572	9	US-10-219-061-42	Sequence 42, Appl
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435	26	56.5	347	9	US-10-517-939-248	Sequence 248, App	508	26	56.5	572	9	US-10-233-134-42	Sequence 42, Appl
436	26	56.5	352	11	US-11-051-720-1325	Sequence 1325, Ap	509	26	56.5	572	11	US-11-188-298-7715	Sequence 7715, Ap
437	26	56.5	354	11	US-11-051-720-1324	Sequence 1324, Ap	510	26	56.5	576	9	US-11-261-346-2	Sequence 65, Appl
438	26	56.5	355	11	US-11-108-088-55	Sequence 55, Appl	511	26	56.5	579	11	US-11-261-346-2	Sequence 2, Appl1
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441	26	56.5	361	11	US-11-130-206-6	Sequence 6, Appl1	514	26	56.5	609	11	US-11-096-568A-27554	Sequence 27554, A
442	26	56.5	363	11	US-11-051-720-1326	Sequence 1326, Ap	515	26	56.5	624	9	US-10-453-772-1070	Sequence 1070, App
443	26	56.5	377	11	US-11-096-568A-28740	Sequence 28740, A	516	26	56.5	625	9	US-10-512-184-47	Sequence 47, App
444	26	56.5	390	11	US-11-219-282-13	Sequence 13, Appl	517	26	56.5	629	9	US-10-453-372-268	Sequence 268, App
445	26	56.5	390	11	US-11-087-099-2856	Sequence 2856, Ap	518	26	56.5	631	11	US-11-087-099-12446	Sequence 12446, A
446	26	56.5	395	9	US-10-995-561-614	Sequence 614, App	519	26	56.5	646	11	US-11-096-568A-27553	Sequence 27553, A
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450	26	56.5	419	11	US-11-072-512-3514	Sequence 3514, Ap	523	26	56.5	678	11	US-11-096-568A-34267	Sequence 34267, A
451	26	56.5	422	9	US-10-454-437-202	Sequence 202, App	524	26	56.5	680	11	US-11-096-568A-14699	Sequence 14699, A
452	26	56.5	422	11	US-11-055-822-372	Sequence 372, App	525	26	56.5	688	9	US-10-878-556A-132	Sequence 132, App
453	26	56.5	425	9	US-10-995-561-616	Sequence 616, App	526	26	56.5	690	11	US-11-096-568A-34266	Sequence 34266, A
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534	26	56.5	734	9	US-10-501-035-347	Sequence 347, App	607	26	56.5	1966	9	US-10-480-330-28	Sequence 28, Appl
535	26	56.5	735	11	US-11-096-568A-2536	Sequence 2536, App	608	26	56.5	2228	9	US-10-330-772-42	Sequence 42, Appl
536	26	56.5	737	11	US-11-096-568A-29224	Sequence 29224, A	609	26	56.5	2413	8	US-10-511-937-2616	Sequence 2616, Ap
537	26	56.5	742	8	US-10-505-928-434	Sequence 434, App	610	26	56.5	2897	9	US-10-499-715-2	Sequence 2, Appl1
538	26	56.5	742	9	US-10-995-561-615	Sequence 615, App	611	26	56.5	2910	9	US-10-330-773-39	Sequence 39, Appl1
539	26	56.5	742	9	US-10-995-561-618	Sequence 618, App	612	26	56.5	4074	8	US-10-501-834-2	Sequence 2, Appl1
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543	26	56.5	742	11	US-11-072-175-176	Sequence 176, App	616	25.5	55.4	253	11	US-11-079-463-9569	Sequence 9569, Ap
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545	26	56.5	752	11	US-11-051-724-62	Sequence 62, Appl	618	25	54.3	10	9	US-11-249-893-21	Sequence 113, App
546	26	56.5	752	11	US-11-051-724-64	Sequence 64, Appl	619	25	54.3	25	11	US-11-004-339-1405	Sequence 21, Appl
547	26	56.5	774	11	US-11-072-512-2554	Sequence 2554, App	620	25	54.3	74	11	US-11-079-463-6222	Sequence 1406, Ap
548	26	56.5	794	11	US-11-218-986-2	Sequence 2, Appl1	621	25	54.3	88	11	US-11-049-536-624	Sequence 6222, Ap
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550	26	56.5	820	9	US-10-821-234-1176	Sequence 1176, Ap	623	25	54.3	97	11	US-11-084-554-211	Sequence 2443, Ap
551	26	56.5	820	11	US-11-188-298-5868	Sequence 5868, Ap	624	25	54.3	97	11	US-11-084-554-211	Sequence 211, App
552	26	56.5	822	11	US-10-493-909-48	Sequence 48, Appl	625	25	54.3	98	9	US-10-999-866-22	Sequence 22, Appl
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555	26	56.5	848	11	US-11-188-298-2293	Sequence 2293, Ap	628	25	54.3	98	11	US-11-061-821-22	Sequence 22, Appl
556	26	56.5	855	11	US-11-096-568A-22960	Sequence 22960, A	629	25	54.3	98	11	US-11-089-266-5	Sequence 5, Appl1
557	26	56.5	892	9	US-10-511-989-8	Sequence 8, Appl1	630	25	54.3	104	11	US-11-064-174-49	Sequence 49, Appl
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559	26	56.5	911	11	US-11-096-568A-22958	Sequence 22958, A	632	25	54.3	106	11	US-11-064-174-47	Sequence 47, Appl
560	26	56.5	912	9	US-10-501-035-372	Sequence 372, App	633	25	54.3	106	11	US-11-064-174-48	Sequence 48, Appl
561	26	56.5	923	11	US-11-087-099-8023	Sequence 8023, Ap	634	25	54.3	107	9	US-10-771-257-76	Sequence 76, Appl
562	26	56.5	923	11	US-11-188-298-22194	Sequence 22194, A	635	25	54.3	107	11	US-11-127-677-77	Sequence 74, Appl
563	26	56.5	931	11	US-11-019-711-117	Sequence 117, App	636	25	54.3	107	11	US-11-049-536-208	Sequence 208, App
564	26	56.5	931	11	US-11-019-711-118	Sequence 118, App	637	25	54.3	107	11	US-11-049-536-356	Sequence 356, App
565	26	56.5	931	11	US-11-019-711-119	Sequence 119, App	638	25	54.3	107	11	US-11-049-536-624	Sequence 624, App
566	26	56.5	931	11	US-11-019-711-120	Sequence 120, App	639	25	54.3	107	11	US-11-199-739-208	Sequence 208, App
567	26	56.5	931	11	US-11-183-136-22	Sequence 22, Appl	640	25	54.3	107	11	US-11-199-739-356	Sequence 356, App
568	26	56.5	931	11	US-11-183-136-24	Sequence 24, Appl	641	25	54.3	107	11	US-11-199-739-624	Sequence 624, App
569	26	56.5	940	11	US-11-096-568A-22975	Sequence 22975, A	642	25	54.3	108	9	US-10-771-257-23	Sequence 23, Appl
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571	26	56.5	967	11	US-11-124-367A-312	Sequence 312, App	644	25	54.3	108	9	US-10-771-257-31	Sequence 31, Appl
572	26	56.5	1006	9	US-10-511-989-4	Sequence 4, Appl1	645	25	54.3	108	9	US-10-771-257-62	Sequence 62, Appl
573	26	56.5	1027	9	US-10-330-773-265	Sequence 265, App	646	25	54.3	108	9	US-10-771-257-66	Sequence 66, Appl
574	26	56.5	1050	11	US-11-096-568A-22974	Sequence 22974, A	647	25	54.3	108	9	US-10-771-257-73	Sequence 73, Appl
575	26	56.5	1051	9	US-10-330-773-268	Sequence 268, App	648	25	54.3	108	9	US-10-771-257-73	Sequence 79, Appl
576	26	56.5	1062	9	US-10-455-772-1068	Sequence 1068, App	649	25	54.3	108	10	US-11-254-182-56	Sequence 56, Appl
577	26	56.5	1079	9	US-10-455-772-1068	Sequence 2, Appl1	650	25	54.3	108	11	US-11-127-677-23	Sequence 23, Appl
578	26	56.5	1120	8	US-10-505-928-213	Sequence 213, App	651	25	54.3	108	11	US-11-127-677-24	Sequence 31, Appl
579	26	56.5	1132	11	US-11-096-568A-22973	Sequence 22973, A	652	25	54.3	108	11	US-11-127-677-60	Sequence 60, Appl
580	26	56.5	1137	9	US-10-499-715-4	Sequence 4, Appl1	653	25	54.3	108	11	US-11-127-677-64	Sequence 64, Appl
581	26	56.5	1206	9	US-10-858-730-73	Sequence 73, Appl1	654	25	54.3	108	11	US-11-127-677-71	Sequence 71, Appl
582	26	56.5	1212	11	US-11-188-298-8749	Sequence 8749, App	655	25	54.3	108	11	US-11-127-677-77	Sequence 77, Appl
583	26	56.5	1278	9	US-10-995-561-952	Sequence 952, App	656	25	54.3	108	11	US-11-127-677-77	Sequence 77, Appl
584	26	56.5	1279	9	US-10-793-626-3188	Sequence 3188, Ap	657	25	54.3	108	11	US-11-112-240-16	Sequence 16, Appl
585	26	56.5	1315	9	US-10-453-372-1034	Sequence 1034, Ap	658	25	54.3	108	11	US-11-112-240-20	Sequence 20, Appl
586	26	56.5	1330	9	US-10-453-372-260	Sequence 260, App	659	25	54.3	108	11	US-11-112-304A-16	Sequence 16, Appl
587	26	56.5	1335	9	US-10-453-372-1030	Sequence 1030, App	660	25	54.3	108	11	US-11-112-304A-20	Sequence 20, Appl
588	26	56.5	1369	11	US-11-124-367A-311	Sequence 311, App	661	25	54.3	108	11	US-11-112-304A-20	Sequence 20, Appl
589	26	56.5	1542	9	US-10-453-372-258	Sequence 258, App	662	25	54.3	108	11	US-11-049-536-464	Sequence 464, App
590	26	56.5	1542	9	US-10-453-372-266	Sequence 266, App	663	25	54.3	108	11	US-11-199-739-464	Sequence 464, App
591	26	56.5	1542	9	US-10-453-372-280	Sequence 280, App	664	25	54.3	109	9	US-10-999-866-45	Sequence 45, Appl
592	26	56.5	1927	11	US-11-079-463-6265	Sequence 6265, Ap	665	25	54.3	109	11	US-10-771-257-73	Sequence 75, Appl
593	26	56.5	1928	9	US-10-480-330-30	Sequence 30, Appl	666	25	54.3	109	11	US-11-127-677-73	Sequence 75, Appl
594	26	56.5	1965	9	US-10-480-330-4	Sequence 4, Appl1	667	25	54.3	109	11	US-11-049-536-292	Sequence 292, App
595	26	56.5	1966	9	US-10-480-330-2	Sequence 2, Appl1	668	25	54.3	109	11	US-11-079-739-292	Sequence 292, App
596	26	56.5	1966	9	US-10-480-330-6	Sequence 6, Appl1	669	25	54.3	110	9	US-10-771-257-30	Sequence 30, Appl
597	26	56.5	1966	9	US-10-480-330-8	Sequence 8, Appl1	670	25	54.3	110	11	US-11-127-677-30	Sequence 30, Appl
598	26	56.5	1966	9	US-10-480-330-10	Sequence 10, Appl	671	25	54.3	110	11	US-11-049-536-548	Sequence 548, App
599	26	56.5	1966	9	US-10-480-330-12	Sequence 12, Appl	672	25	54.3	110	11	US-11-098-686-10298	Sequence 10298, A
600	26	56.5	1966	9	US-10-480-330-14	Sequence 14, Appl	673	25	54.3	110	11	US-11-172-740-1842	Sequence 1842, Ap
601	26	56.5	1966	9	US-10-480-330-16	Sequence 16, Appl	674	25	54.3	110	11	US-11-199-739-548	Sequence 548, App
602	26	56.5	1966	9	US-10-480-330-18	Sequence 18, Appl	675	25	54.3	111	11	US-11-096-568A-14643	Sequence 14643, A
603	26	56.5	1966	9	US-10-480-330-20	Sequence 20, Appl	676	25	54.3	112	11	US-11-096-568A-14642	Sequence 14642, A
604	26	56.5	1966	9	US-10-480-330-22	Sequence 22, Appl	677	25	54.3	114	9	US-10-726-554-8	Sequence 8, Appl1
605	26	56.5	1966	9	US-10-480-330-24	Sequence 24, Appl	678	25	54.3	115	11	US-11-136-559-24	Sequence 24, Appl

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680	25	54.3	116	11	US-11-054-669-101	Sequence 101, App	753	25	54.3	238	11	US-11-054-515-2024	Sequence 2024, Ap
681	25	54.3	117	9	US-10-793-626-228	Sequence 228, App	754	25	54.3	238	11	US-11-054-515-2067	Sequence 2067, Ap
682	25	54.3	117	9	US-11-097-812-79	Sequence 79, App1	755	25	54.3	238	11	US-11-052-554A-38	Sequence 38, App1
683	25	54.3	118	11	US-11-136-559-8	Sequence 8, App1	756	25	54.3	238	11	US-11-052-554A-51	Sequence 51, App1
684	25	54.3	118	11	US-11-136-559-16	Sequence 16, App1	757	25	54.3	238	11	US-11-052-554A-52	Sequence 52, App1
685	25	54.3	118	11	US-11-209-289-9	Sequence 9, App1	758	25	54.3	238	11	US-11-193-561-10	Sequence 10, App1
686	25	54.3	119	9	US-10-502-145-25	Sequence 25, App1	759	25	54.3	238	11	US-11-193-771-10	Sequence 10, App1
687	25	54.3	119	9	US-10-502-145-25	Sequence 16, App1	760	25	54.3	238	11	US-11-193-769-10	Sequence 10, App1
688	25	54.3	119	11	US-11-004-590-235	Sequence 235, App	761	25	54.3	238	11	US-11-193-806-10	Sequence 10, App1
689	25	54.3	119	11	US-11-076-395-15	Sequence 15, App1	762	25	54.3	238	11	US-11-193-857-10	Sequence 10, App1
690	25	54.3	120	11	US-11-054-669-114	Sequence 114, App	763	25	54.3	238	11	US-11-266-444-1907	Sequence 1907, Ap
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692	25	54.3	121	11	US-11-096-568A-15612	Sequence 15612, A	765	25	54.3	238	11	US-11-266-444-2024	Sequence 2024, Ap
693	25	54.3	124	11	US-11-096-568A-24756	Sequence 24756, A	766	25	54.3	238	11	US-11-266-444-2067	Sequence 2067, Ap
694	25	54.3	124	11	US-11-155-843-136	Sequence 136, App	767	25	54.3	239	11	US-11-054-515-937	Sequence 937, App
695	25	54.3	124	11	US-11-155-843-137	Sequence 137, App	768	25	54.3	239	11	US-11-054-515-2015	Sequence 2015, Ap
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697	25	54.3	131	11	US-11-096-568A-24755	Sequence 24755, A	770	25	54.3	239	11	US-11-054-515-2028	Sequence 2032, Ap
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993 25 54.3 248 11 US-11-054-515-1648 Sequence 1648, App
994 25 54.3 248 11 US-11-054-515-1657 Sequence 1657, App
995 25 54.3 248 11 US-11-054-515-1662 Sequence 1662, App
996 25 54.3 248 11 US-11-054-515-1665 Sequence 1665, App
997 25 54.3 248 11 US-11-054-515-1667 Sequence 1667, App
998 25 54.3 248 11 US-11-054-515-1668 Sequence 1668, App
999 25 54.3 248 11 US-11-054-515-1670 Sequence 1670, App
1000 25 54.3 248 11 US-11-054-515-1675 Sequence 1675, App
```

## ALIGNMENTS

```
RESULT 1
US-10-530-061-1659
; Sequence 1659, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT FILING DATE: 2005-04-04
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1659
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1659
```

```
Query Match 100.0%; Score 46; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0023;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 SLQDIETIC 9
Db 3 SLQDIETIC 11
```

```
RESULT 2
US-10-530-253-15
; Sequence 15, Application US/10530253
```

```
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 18
US-10-530-253-15
```

```
Query Match 100.0%; Score 46; DB 9; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.029;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 SLQDIETIC 9
Db 24 SLQDIETIC 32
```

```
RESULT 3
US-11-155-288-8
; Sequence 8, Application US/11155288
; Publication No. US2006008468A1
; GENERAL INFORMATION:
; APPLICANT: Chiang, Chih-Sheng
; APPLICANT: Steward, John J.L.
; TITLE OF INVENTION: COMBINATIONS OF TUMOR-ASSOCIATED
; ANTIGENS IN DIAGNOSTICS FOR VARIOUS TYPES OF CANCERS
; FILE REFERENCE: MANNK.050A
; CURRENT APPLICATION NUMBER: US/11/155,288
; CURRENT FILING DATE: 2005-06-17
; PRIOR FILING DATE: 2004-06-17
; PRIOR APPLICATION NUMBER: 60/580,969
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-155-288-8
```

```
Query Match 82.6%; Score 38; DB 11; Length 509;
Best Local Similarity 55.6%; Pred. No. 4.6;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 SLQDIETIC 9
Db 234 SLQDIETIC 242
```

```
RESULT 4
US-10-530-061-55
; Sequence 55, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
```

```
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 55
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-55
```

```
Query Match          78.3%; Score 36; DB 9; Length 10;
Best Local Similarity 87.5%; Pred. No. 0.18;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
Oy      2 LQDIETC 9
      |||||
Db      1 LQDIETC 8
```

```
RESULT 5
US-10-530-061-112
; Sequence 112, Application US/10530061
; Publication No. US2006007945A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033502/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 112
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-112
```

```
Query Match          78.3%; Score 36; DB 9; Length 10;
Best Local Similarity 87.5%; Pred. No. 0.18;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
Oy      2 LQDIETC 9
      |||||
Db      1 LQDIETC 8
```

```
RESULT 6
US-10-530-253-20
; Sequence 20, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/1004137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
```

```
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 20
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 45
US-10-530-253-20
```

```
Query Match          76.1%; Score 35; DB 9; Length 158;
Best Local Similarity 66.7%; Pred. No. 5.5;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
Oy      1 SLQDVSIAC 9
      |||||
Db      24 SLQDVSIAC 32
```

```
RESULT 7
US-11-188-298-1612
; Sequence 1612, Application US/11188298
; Publication No. US2006007552A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 1612
; LENGTH: 673
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-11-188-298-1612
```

```
Query Match          76.1%; Score 35; DB 11; Length 673;
Best Local Similarity 62.5%; Pred. No. 26;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Oy      2 LQDIETC 9
      |||||
Db      408 LQDIETC 415
```

```
RESULT 8
US-10-329-258-27
; Sequence 27, Application US/10329258
; Publication No. US2006002423A1
; GENERAL INFORMATION:
; APPLICANT: MUELLER, SABINE
; APPLICANT: GONZALEZ-ZULUETA, MIRELLA
; APPLICANT: FOEHR, ERIK
; APPLICANT: CHIN, DANIEL J.
; TITLE OF INVENTION: USE OF BIOMOLECULAR TARGETS IN THE TREATMENT AND VISUALIZATION O
; FILE REFERENCE: AGYT-008052
; CURRENT APPLICATION NUMBER: US/10/329,258
; CURRENT FILING DATE: 2002-12-23
; PRIOR APPLICATION NUMBER: 60/343,422
; PRIOR FILING DATE: 2001-12-27
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 27
; LENGTH: 366
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-329-258-27
```

```
Query Match          73.9%; Score 34; DB 9; Length 366;
Best Local Similarity 66.7%; Pred. No. 22;
```

```

Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
QY 1 SLIDIEITC 9
Db 123 ALQDLENTC 131

RESULT 9
US-11-000-463-410
; Sequence 410, Application US/11000463
; Publication No. US20050266423A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Chen, Rui-hong
; APPLICANT: Qian, Xiaohong B.
; APPLICANT: Wang, Zhiwei
; APPLICANT: Wehrman, Tom
; APPLICANT: Zhang, Jie
; APPLICANT: Cao, Yi-Cheng
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides
; FILE REFERENCE: 785CIP4CN
; CURRENT APPLICATION NUMBER: US/11/000,463
; PRIOR FILING DATE: 2004-11-29
; PRIOR APPLICATION NUMBER: 10/291,265
; PRIOR FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: PCT/US01/02623
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 09/922,279
; PRIOR FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: 09/491,404
; PRIOR FILING DATE: 2000-01-25
; PRIOR APPLICATION NUMBER: 09/617,746
; PRIOR FILING DATE: 2000-07-17
; PRIOR APPLICATION NUMBER: 09/631,451
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: 09/633,870
; PRIOR FILING DATE: 2000-09-15
; NUMBER OF SEQ ID NOS: 944
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 410
; LENGTH: 366
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-000-463-410

Query Match 73.9%; Score 34; DB 11; Length 366;
Best Local Similarity 66.7%; Pred. No. 22;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 SLIDIEITC 9
Db 123 ALQDLENTC 131

RESULT 10
US-11-000-463-882
; Sequence 882, Application US/11000463
; Publication No. US20050266423A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Chen, Rui-hong
; APPLICANT: Qian, Xiaohong B.
; APPLICANT: Wang, Zhiwei
; APPLICANT: Wehrman, Tom
; APPLICANT: Zhang, Jie
; APPLICANT: Zhou, Ping
; APPLICANT: Cao, Yi-Cheng

```

```

; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides
; FILE REFERENCE: 785CIP4CN
; CURRENT APPLICATION NUMBER: US/11/000,463
; PRIOR FILING DATE: 2004-11-29
; PRIOR APPLICATION NUMBER: 10/291,265
; PRIOR FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: PCT/US01/02623
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 09/922,279
; PRIOR FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: 09/491,404
; PRIOR FILING DATE: 2000-01-25
; PRIOR APPLICATION NUMBER: 09/617,746
; PRIOR FILING DATE: 2000-07-17
; PRIOR APPLICATION NUMBER: 09/631,451
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: 09/633,870
; PRIOR FILING DATE: 2000-09-15
; NUMBER OF SEQ ID NOS: 944
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 882
; LENGTH: 366
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-000-463-882

Query Match 73.9%; Score 34; DB 11; Length 366;
Best Local Similarity 66.7%; Pred. No. 22;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 SLIDIEITC 9
Db 123 ALQDLENTC 131

RESULT 11
US-11-087-099-4671
; Sequence 4671, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; PRIOR FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 4671
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Phlebia radiata
US-11-087-099-4671

Query Match 73.9%; Score 34; DB 11; Length 390;
Best Local Similarity 71.4%; Pred. No. 23;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 QDIEITC 9
Db 337 QDLELTC 343

RESULT 12
US-10-530-061-517
; Sequence 517, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EXS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061

```



```

; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 517
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
; US-10-530-061-517
```

```
Query Match          71.7%; Score 33; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.73;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy          4 DIERTC 9
             |||||
Db          1 DIERTC 6
```

```
RESULT 13
; US-10-995-951A-28
; Sequence 28, Application US/10995951A
; Publication No. US20050245732A1
; GENERAL INFORMATION:
; APPLICANT: Hannouta, A. et al.
; TITLE OF INVENTION: A Repressor-Mediated Regulation System for Control of Gene Expression
; FILE REFERENCE: 1096.021B
; CURRENT APPLICATION NUMBER: US/10/995,951A
; CURRENT FILING DATE: 2004-11-23
; PRIOR APPLICATION NUMBER: PCT/CA02/01807
; PRIOR FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: PCT/CA02/00740
; PRIOR FILING DATE: 2002-05-23
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 28
; LENGTH: 143
; TYPE: PRT
; ORGANISM: rhizobium elti
; US-10-995-951A-28
```

```
Query Match          71.7%; Score 33; DB 9; Length 143;
Best Local Similarity 66.7%; Pred. No. 13;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy          1 SLQDIERTC 9
             |||||
Db          71 SVQDDQITC 79
```

```
RESULT 14
; US-10-995-951A-30
; Sequence 30, Application US/10995951A
; Publication No. US20050245732A1
; GENERAL INFORMATION:
; APPLICANT: Hannouta, A. et al.
; TITLE OF INVENTION: A Repressor-Mediated Regulation System for Control of Gene Expression
; FILE REFERENCE: 1096.021B
; CURRENT APPLICATION NUMBER: US/10/995,951A
; CURRENT FILING DATE: 2004-11-23
; PRIOR APPLICATION NUMBER: PCT/CA02/01807
; PRIOR FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: PCT/CA02/00740
; PRIOR FILING DATE: 2002-05-23
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn version 3.0
```

```

; SEQ ID NO 30
; LENGTH: 143
; TYPE: PRT
; ORGANISM: rhizobium meliloti
; US-10-995-951A-30
```

```
Query Match          71.7%; Score 33; DB 9; Length 143;
Best Local Similarity 66.7%; Pred. No. 13;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy          1 SLQDIERTC 9
             |||||
Db          71 SVQDDQITC 79
```

```
RESULT 15
; US-11-067-425A-63
; Sequence 63, Application US/11067425A
; Publication No. US20050278809A1
; GENERAL INFORMATION:
; APPLICANT: Hannouta, Abdelali
; APPLICANT: Lydiate, Derek J.
; APPLICANT: Gao, Ming-Jun
; TITLE OF INVENTION: REGULATION OF GENE EXPRESSION USING CHROMATIN REMODELLING FACTOR
; FILE REFERENCE: 270.78US11
; CURRENT APPLICATION NUMBER: US/11/067,425A
; CURRENT FILING DATE: 2005-02-22
; PRIOR APPLICATION NUMBER: US 10/516,753
; PRIOR FILING DATE: 2004-12-03
; PRIOR APPLICATION NUMBER: PCT/CA03/00822
; PRIOR FILING DATE: 2003-06-06
; PRIOR APPLICATION NUMBER: US 60/387,088
; PRIOR FILING DATE: 2002-06-06
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 63
; LENGTH: 143
; TYPE: PRT
; ORGANISM: Rhizobium elti
; US-11-067-425A-63
```

```
Query Match          71.7%; Score 33; DB 11; Length 143;
Best Local Similarity 66.7%; Pred. No. 13;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy          1 SLQDIERTC 9
             |||||
Db          71 SVQDDQITC 79
```

```
RESULT 16
; US-11-067-425A-65
; Sequence 65, Application US/11067425A
; Publication No. US20050278809A1
; GENERAL INFORMATION:
; APPLICANT: Hannouta, Abdelali
; APPLICANT: Lydiate, Derek J.
; APPLICANT: Gao, Ming-Jun
; TITLE OF INVENTION: REGULATION OF GENE EXPRESSION USING CHROMATIN REMODELLING FACTOR
; FILE REFERENCE: 270.78US11
; CURRENT APPLICATION NUMBER: US/11/067,425A
; CURRENT FILING DATE: 2005-02-22
; PRIOR APPLICATION NUMBER: US 10/516,753
; PRIOR FILING DATE: 2004-12-03
; PRIOR APPLICATION NUMBER: PCT/CA03/00822
; PRIOR FILING DATE: 2003-06-06
; PRIOR APPLICATION NUMBER: US 60/387,088
; PRIOR FILING DATE: 2002-06-06
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 65
; LENGTH: 143
; TYPE: PRT
```

ORGANISM: Rhizobium meliloti  
US-11-067-425A-65

Query Match 71.7%; Score 33; DB 11; Length 143;  
Best Local Similarity 66.7%; Pred. No. 13;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SLDDIETC 9  
Db 71 SVQDDQITC 79

## RESULT 17

US-11-188-298-2647  
Sequence 2647, Application US/11188298  
Publication No. US20060075522A1  
GENERAL INFORMATION:  
APPLICANT: Abbad, Mark S. et al.  
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
FILE REFERENCE: 38-21(53452)B  
CURRENT APPLICATION NUMBER: US/11/188,298  
PRIOR FILING DATE: 2005-07-22  
PRIOR APPLICATION NUMBER: 60/592,978  
PRIOR FILING DATE: 2004-07-31  
NUMBER OF SEQ ID NOS: 22569  
SEQ ID NO 2647  
LENGTH: 633  
TYPE: PRT  
ORGANISM: Clostridium tetani E88  
US-11-188-298-2647

Query Match 71.7%; Score 33; DB 11; Length 633;  
Best Local Similarity 50.0%; Pred. No. 63;  
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 2 LODIETC 9  
Db 167 IEDIDVTC 174

RESULT 18  
US-10-530-253-19  
Sequence 19, Application US/10530253  
Publication No. US20060014926A1  
GENERAL INFORMATION:  
APPLICANT: Cassecci, Maria C.  
APPLICANT: Smith, Larry  
APPLICANT: Jeffrey K. Pullen  
APPLICANT: Susan P. McElhinney  
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
FILE REFERENCE: 00630/100M137-US2  
CURRENT APPLICATION NUMBER: US/10/530,253  
CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US2003/031726  
PRIOR FILING DATE: 2003-10-02  
PRIOR APPLICATION NUMBER: US 60/415,929  
PRIOR FILING DATE: 2002-10-03  
NUMBER OF SEQ ID NOS: 65  
SOFTWARE: Patentin version 3.1  
SEQ ID NO 19  
LENGTH: 158  
TYPE: PRT  
ORGANISM: Human papillomavirus type 39  
US-10-530-253-19

Query Match 69.6%; Score 32; DB 9; Length 158;  
Best Local Similarity 66.7%; Pred. No. 23;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 SLDDIETC 9  
Db 24 TLDDITAC 32

## RESULT 19

US-11-096-568A-22480  
Sequence 22480, Application US/11096568A  
Publication No. US20060048240A1  
GENERAL INFORMATION:  
APPLICANT: Alexandrov, Nikolai et al.  
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
FILE REFERENCE: 2750-1592PUS2  
CURRENT APPLICATION NUMBER: US/11/096,568A  
CURRENT FILING DATE: 2005-04-01  
NUMBER OF SEQ ID NOS: 34471  
SEQ ID NO 22480  
LENGTH: 210  
TYPE: PRT  
ORGANISM: Zea mays subsp. mays  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (1)..(210)  
OTHER INFORMATION: Ceres Seq. ID no. 12408970  
US-11-096-568A-22480

Query Match 69.6%; Score 32; DB 11; Length 210;  
Best Local Similarity 75.0%; Pred. No. 31;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LODIETC 9  
Db 156 LRDIETLC 163

RESULT 20  
US-11-096-568A-22479  
Sequence 22479, Application US/11096568A  
Publication No. US20060048240A1  
GENERAL INFORMATION:  
APPLICANT: Alexandrov, Nikolai et al.  
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
FILE REFERENCE: 2750-1592PUS2  
CURRENT APPLICATION NUMBER: US/11/096,568A  
CURRENT FILING DATE: 2005-04-01  
NUMBER OF SEQ ID NOS: 34471  
SEQ ID NO 22479  
LENGTH: 243  
TYPE: PRT  
ORGANISM: Zea mays subsp. mays  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (1)..(243)  
OTHER INFORMATION: Ceres Seq. ID no. 12408969  
US-11-096-568A-22479

Query Match 69.6%; Score 32; DB 11; Length 243;  
Best Local Similarity 75.0%; Pred. No. 36;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LODIETC 9  
Db 169 LRDIETLC 196

RESULT 21  
US-11-096-568A-22478  
Sequence 22478, Application US/11096568A  
Publication No. US20060048240A1  
GENERAL INFORMATION:  
APPLICANT: Alexandrov, Nikolai et al.  
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
FILE REFERENCE: 2750-1592PUS2  
CURRENT APPLICATION NUMBER: US/11/096,568A

;; CURRENT FILING DATE: 2005-04-01  
;; NUMBER OF SEQ ID NOS: 34471  
;; SEQ ID NO 22478  
;; LENGTH: 304  
;; TYPE: PRT  
;; ORGANISM: Zea mays subsp. mays  
;; FEATURE:  
;; NAME/KEY: misc.feature  
;; LOCATION: (1)..(304)  
;; OTHER INFORMATION: Ceres Seq. ID no. 12408968  
US-11-096-568A-22478

Query Match 69.6%; Score 32; DB 11; Length 304;  
Best Local Similarity 75.0%; Pred. No. 46;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LODIETC 9  
Db 250 LRDIETLC 257

RESULT 22  
US-11-096-568A-19986  
;; Sequence 19986; Application US/11096568A  
;; Publication No. US20060048240A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Alexandrov, Nikolai et al.  
;; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
;; FILE REFERENCE: 2750-1592PUS2  
;; CURRENT APPLICATION NUMBER: US/11/096,568A  
;; CURRENT FILING DATE: 2005-04-01  
;; NUMBER OF SEQ ID NOS: 34471  
;; SEQ ID NO 19986  
;; LENGTH: 306  
;; TYPE: PRT  
;; ORGANISM: Zea mays subsp. mays  
;; FEATURE:  
;; NAME/KEY: misc.feature  
;; LOCATION: (1)..(306)  
;; OTHER INFORMATION: Ceres Seq. ID no. 12376375  
US-11-096-568A-19986

Query Match 69.6%; Score 32; DB 11; Length 306;  
Best Local Similarity 75.0%; Pred. No. 46;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LODIETC 9  
Db 213 LRDIETLC 220

RESULT 23  
US-11-096-568A-19985  
;; Sequence 19985; Application US/11096568A  
;; Publication No. US20060048240A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Alexandrov, Nikolai et al.  
;; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
;; FILE REFERENCE: 2750-1592PUS2  
;; CURRENT APPLICATION NUMBER: US/11/096,568A  
;; CURRENT FILING DATE: 2005-04-01  
;; NUMBER OF SEQ ID NOS: 34471  
;; SEQ ID NO 19985  
;; LENGTH: 307  
;; TYPE: PRT  
;; ORGANISM: Zea mays subsp. mays  
;; FEATURE:  
;; NAME/KEY: misc.feature  
;; LOCATION: (1)..(307)  
;; OTHER INFORMATION: Ceres Seq. ID no. 12376374  
US-11-096-568A-19985

Query Match 69.6%; Score 32; DB 11; Length 307;  
Best Local Similarity 75.0%; Pred. No. 47;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LODIETC 9  
Db 214 LRDIETLC 221

RESULT 24  
US-11-096-568A-19984  
;; Sequence 19984; Application US/11096568A  
;; Publication No. US20060048240A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Alexandrov, Nikolai et al.  
;; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
;; FILE REFERENCE: 2750-1592PUS2  
;; CURRENT APPLICATION NUMBER: US/11/096,568A  
;; CURRENT FILING DATE: 2005-04-01  
;; NUMBER OF SEQ ID NOS: 34471  
;; SEQ ID NO 19984  
;; LENGTH: 314  
;; TYPE: PRT  
;; ORGANISM: Zea mays subsp. mays  
;; FEATURE:  
;; NAME/KEY: misc.feature  
;; LOCATION: (1)..(314)  
;; OTHER INFORMATION: Ceres Seq. ID no. 12376373  
US-11-096-568A-19984

Query Match 69.6%; Score 32; DB 11; Length 314;  
Best Local Similarity 75.0%; Pred. No. 48;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LODIETC 9  
Db 221 LRDIETLC 228

RESULT 25  
US-11-096-568A-5396  
;; Sequence 5396; Application US/11096568A  
;; Publication No. US20060048240A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Alexandrov, Nikolai et al.  
;; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
;; FILE REFERENCE: 2750-1592PUS2  
;; CURRENT APPLICATION NUMBER: US/11/096,568A  
;; CURRENT FILING DATE: 2005-04-01  
;; NUMBER OF SEQ ID NOS: 34471  
;; SEQ ID NO 5396  
;; LENGTH: 322  
;; TYPE: PRT  
;; ORGANISM: Glycine max  
;; FEATURE:  
;; NAME/KEY: misc.feature  
;; LOCATION: (1)..(322)  
;; OTHER INFORMATION: Ceres Seq. ID no. 14308682  
US-11-096-568A-5396

Query Match 69.6%; Score 32; DB 11; Length 322;  
Best Local Similarity 75.0%; Pred. No. 49;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LODIETC 9  
Db 214 LRDIETLC 221

RESULT 26

```
US-11-096-568A-5395
; Sequence 5395, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 5395
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)..(329)
; OTHER INFORMATION: Ceres Seq. ID no. 14308681
US-11-096-568A-5395

Query Match
Best Local Similarity 69.6%; Score 32; DB 11; Length 329;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LODIETC 9
Db 221 LRDIETLC 228

RESULT 27
US-11-096-568A-5394
; Sequence 5394, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 5394
; LENGTH: 339
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)..(339)
; OTHER INFORMATION: Ceres Seq. ID no. 14308680
US-11-096-568A-5394

Query Match
Best Local Similarity 75.0%; Score 32; DB 11; Length 339;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LODIETC 9
Db 231 LRDIETLC 238

RESULT 28
US-11-188-298-19258
; Sequence 19258, Application US/11188298
; Publication No. US2006007552A1
; GENERAL INFORMATION:
; APPLICANT: Abadi, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
```

```
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 19258
; LENGTH: 328
; TYPE: PRT
; ORGANISM: Neisseria meningitidis
US-11-188-298-19258

Query Match
Best Local Similarity 67.4%; Score 31; DB 11; Length 328;
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SLODIETC 9
Db 282 LRDIETLC 290

RESULT 29
US-11-096-568A-10573
; Sequence 10573, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 10573
; LENGTH: 331
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)..(331)
; OTHER INFORMATION: Ceres Seq. ID no. 13596495
US-11-096-568A-10573

Query Match
Best Local Similarity 67.4%; Score 31; DB 11; Length 331;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LODIETC 9
Db 208 LRDIETLC 215

RESULT 30
US-11-096-568A-10572
; Sequence 10572, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 10572
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)..(338)
; OTHER INFORMATION: Ceres Seq. ID no. 13596494
US-11-096-568A-10572

Query Match
Best Local Similarity 67.4%; Score 31; DB 11; Length 338;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

Qy 2 LODIETC 9  
 Db 215 LRDVEILC 222

## RESULT 31

US-11-096-568A-10571  
 ; Sequence 10571, Application US/11096568A  
 ; Publication No. US20060048240A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Alexandrov, Nickolai et al.  
 ; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
 ; FILE REFERENCE: 2750-1592PUS2  
 ; CURRENT APPLICATION NUMBER: US/11/096,568A  
 ; CURRENT FILING DATE: 2005-04-01  
 ; NUMBER OF SEQ ID NOS: 34471  
 ; SEQ ID NO 10571  
 ; LENGTH: 381  
 ; TYPE: PRT  
 ; ORGANISM: *Triticum aestivum*  
 ; FEATURE:  
 ; NAME/KEY: misc\_feature  
 ; LOCATION: (1)..(381)  
 ; OTHER INFORMATION: Ceres Seq. ID no. 13596493  
 US-11-096-568A-10571

Query Match 67.4%; Score 31; DB 11; Length 381;  
 Best Local Similarity 62.5%; Pred. No. 95;  
 Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LODIETC 9  
 Db 258 LRDVEILC 265

## RESULT 32

US-11-087-099-1194  
 ; Sequence 1194, Application US/11087099  
 ; Publication No. US20060041961A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Abad, Mark S. et al.  
 ; TITLE OF INVENTION: Genes and Uses for Plant Improvement  
 ; FILE REFERENCE: 38-21(53450)B EP  
 ; CURRENT APPLICATION NUMBER: US/11/087,099  
 ; CURRENT FILING DATE: 2005-03-22  
 ; NUMBER OF SEQ ID NOS: 12464  
 ; SEQ ID NO 1194  
 ; LENGTH: 387  
 ; TYPE: PRT  
 ; ORGANISM: *Ceriporiopsis subvermispora*  
 US-11-087-099-1194

Query Match 67.4%; Score 31; DB 11; Length 387;  
 Best Local Similarity 57.1%; Pred. No. 96;  
 Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 3 QDIETC 9  
 Db 338 QDIQLTC 344

## RESULT 33

US-11-087-099-9326  
 ; Sequence 9326, Application US/11087099  
 ; Publication No. US20060041961A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Abad, Mark S. et al.  
 ; TITLE OF INVENTION: Genes and Uses for Plant Improvement  
 ; FILE REFERENCE: 38-21(53450)B EP  
 ; CURRENT APPLICATION NUMBER: US/11/087,099  
 ; CURRENT FILING DATE: 2005-03-22  
 ; NUMBER OF SEQ ID NOS: 12464

; SEQ ID NO 9326  
 ; LENGTH: 387  
 ; TYPE: PRT  
 ; ORGANISM: *Ceriporiopsis subvermispora*  
 US-11-087-099-9326

Query Match 67.4%; Score 31; DB 11; Length 387;  
 Best Local Similarity 57.1%; Pred. No. 96;  
 Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 3 QDIETC 9  
 Db 338 QDIQLTC 344

## RESULT 34

US-11-087-099-10451  
 ; Sequence 10451, Application US/11087099  
 ; Publication No. US20060041961A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Abad, Mark S. et al.  
 ; TITLE OF INVENTION: Genes and Uses for Plant Improvement  
 ; FILE REFERENCE: 38-21(53450)B EP  
 ; CURRENT APPLICATION NUMBER: US/11/087,099  
 ; CURRENT FILING DATE: 2005-03-22  
 ; NUMBER OF SEQ ID NOS: 12464  
 ; SEQ ID NO 10451  
 ; LENGTH: 387  
 ; TYPE: PRT  
 ; ORGANISM: *Ceriporiopsis subvermispora*  
 US-11-087-099-10451

Query Match 67.4%; Score 31; DB 11; Length 387;  
 Best Local Similarity 57.1%; Pred. No. 96;  
 Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 3 QDIETC 9  
 Db 338 QDIQLTC 344

## RESULT 35

US-11-129-143-96  
 ; Sequence 96, Application US/11129143  
 ; Publication No. US2005026518A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: BERRY, Alan  
 ; APPLICANT: BRETZEL, Werner  
 ; APPLICANT: HUMBELIN, Markus  
 ; APPLICANT: LOPEZ-ULIBARRI, Rual  
 ; APPLICANT: MAYER, Anne F.  
 ; APPLICANT: YELISEEV, Alexei A.  
 ; TITLE OF INVENTION: IMPROVED ISOPRENOID PRODUCTION  
 ; FILE REFERENCE: C38435/121966  
 ; CURRENT APPLICATION NUMBER: US/11/129,143  
 ; CURRENT FILING DATE: 2005-05-13  
 ; NUMBER OF SEQ ID NOS: 197  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 96  
 ; LENGTH: 292  
 ; TYPE: PRT  
 ; ORGANISM: *Streptococcus pyrogenes*  
 US-11-129-143-96

Query Match 65.2%; Score 30; DB 11; Length 292;  
 Best Local Similarity 62.5%; Pred. No. 1,1e+02;  
 Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 2 LODIETC 9  
 Db 33 LTDIEVVC 40

## RESULT 36

```

US-11-045-004-356
; Sequence 356, Application US/11045004
; Publication No. US20060078901A1
; GENERAL INFORMATION:
; APPLICANT: BUCHRIESEN, CARMEN
; APPLICANT: FRANGEUL, LIONEL
; APPLICANT: COUVE, ELISABETH
; APPLICANT: RUSNIOK, CHRISTOPHE
; APPLICANT: FSIHI, HAFIRA
; APPLICANT: DEHOUX, PIERRE
; APPLICANT: DUSSETTE, OLIVIER
; APPLICANT: CHETOUANT, PARID
; APPLICANT: NEDJARI, HAMED
; APPLICANT: GLASER, PHILIPPE
; APPLICANT: KUNST, FRANCK
; APPLICANT: COSSANT, PASCALE
; APPLICANT: DANIELS, JUSTIN
; APPLICANT: GOEBEL, WERNER
; APPLICANT: KREFT, JURGEN
; APPLICANT: KUHN, MICHAEL
; APPLICANT: NG, EVA
; APPLICANT: VAZQUEZ-BOLAND, ANTONIO
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
; APPLICANT: GARRIDO-GARCIA, PATRICIA
; APPLICANT: TIERREZ-MARTINEZ, ALBERTO
; APPLICANT: AMEND, ALEXANDRA
; APPLICANT: CHAKRABORTY, TRINAD
; APPLICANT: DOMANN, EUGEN
; APPLICANT: HAIN, THORSTEN
; APPLICANT: BERGE, PATRICK
; APPLICANT: CHARBIT, ALAIN
; APPLICANT: DURANT, LIONEL
; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
; APPLICANT: BAQUERO, FERNANDO
; APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
; APPLICANT: GOMEZ-LOPEZ, NIRIA
; APPLICANT: MADUENIO, ENCARNIA
; APPLICANT: PABLOS, BETRIZ DE
; APPLICANT: WEHLAND, JURGEN
; APPLICANT: KARST, UWE
; APPLICANT: ENTIAN, KARL-DIETER
; APPLICANT: HAUF, JORG
; APPLICANT: ROSE, MATTHIAS
; APPLICANT: VOSS, HAMUT
; TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
; FILE REFERENCE: 05394.0018-02
; CURRENT APPLICATION NUMBER: US/11/045,004
; CURRENT FILING DATE: 2005-01-28
; PRIOR APPLICATION NUMBER: 10/637,657
; PRIOR FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: 10/257,023
; PRIOR FILING DATE: 2002-10-08
; PRIOR APPLICATION NUMBER: PCT/FR01/01118
; PRIOR FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: FR 00/04,629
; PRIOR FILING DATE: 2000-04-11
; NUMBER OF SEQ ID NOS: 2854
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 356
; LENGTH: 318
; TYPE: PRT
; ORGANISM: Listeria monocytogenes
US-11-045-004-356

```

```

Query Match      65.2%; Score 30; DB 11; Length 318;
Best Local Similarity 75.0%; Pred. No. 1.3e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

Qy 1 SIDIET 8
Db 121 SIDIET 128

```

## RESULT 37

```

US-11-087-099-1029
; Sequence 1029, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 1029
; LENGTH: 377
; TYPE: PRT
; ORGANISM: Phanerochaete sordida
US-11-087-099-1029

```

```

Query Match      65.2%; Score 30; DB 11; Length 377;
Best Local Similarity 57.1%; Pred. No. 1.5e+02;
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy 3 QDIETC 9
Db 334 QDIETC 340

```

## RESULT 38

```

US-11-087-099-8872
; Sequence 8872, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 8872
; LENGTH: 378
; TYPE: PRT
; ORGANISM: Phanerochaete chrysosporium
US-11-087-099-8872

```

```

Query Match      65.2%; Score 30; DB 11; Length 378;
Best Local Similarity 57.1%; Pred. No. 1.5e+02;
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy 3 QDIETC 9
Db 334 QDIETC 340

```

## RESULT 39

```

US-11-087-099-11183
; Sequence 11183, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 11183
; LENGTH: 378
; TYPE: PRT
; ORGANISM: Phanerochaete chrysosporium
US-11-087-099-11183

```

```

Query Match      65.2%; Score 30; DB 11; Length 378;
Best Local Similarity 57.1%; Pred. No. 1.5e+02;
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

```

QY 3 QDIETC 9  
|:|:|:  
Db 334 QDIETC 340

RESULT 40  
US-11-087-099-3689  
; Sequence 3689, Application US/11087099  
; Publication No. US20060041961A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: Genes and Uses for Plant Improvement  
; FILE REFERENCE: 38-21(53450)B EP  
; CURRENT APPLICATION NUMBER: US/11/087,099  
; CURRENT FILING DATE: 2005-03-22  
; NUMBER OF SEQ ID NOS: 12464  
; SEQ ID NO 3689  
; LENGTH: 380  
; TYPE: PRT  
; ORGANISM: Phanerochaete chrysosporium  
US-11-087-099-3689

Query Match 65.2%; Score 30; DB 11; Length 380;  
Best Local Similarity 57.1%; Pred. No. 1.5e+02;  
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 3 QDIETC 9  
|:|:|:  
Db 336 QDIETC 342

RESULT 41  
US-11-087-099-10593  
; Sequence 10593, Application US/11087099  
; Publication No. US20060041961A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: Genes and Uses for Plant Improvement  
; FILE REFERENCE: 38-21(53450)B EP  
; CURRENT APPLICATION NUMBER: US/11/087,099  
; CURRENT FILING DATE: 2005-03-22  
; NUMBER OF SEQ ID NOS: 12464  
; SEQ ID NO 10593  
; LENGTH: 382  
; TYPE: PRT  
; ORGANISM: Phanerochaete sordida  
US-11-087-099-10593

Query Match 65.2%; Score 30; DB 11; Length 382;  
Best Local Similarity 44.4%; Pred. No. 1.5e+02;  
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 SLODIETC 9  
|:|:|:  
Db 336 SLODIETC 344

RESULT 42  
US-11-087-099-12203  
; Sequence 12203, Application US/11087099  
; Publication No. US20060041961A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: Genes and Uses for Plant Improvement  
; FILE REFERENCE: 38-21(53450)B EP  
; CURRENT APPLICATION NUMBER: US/11/087,099  
; CURRENT FILING DATE: 2005-03-22  
; NUMBER OF SEQ ID NOS: 12464  
; SEQ ID NO 12203  
; LENGTH: 382  
; TYPE: PRT  
; ORGANISM: Phanerochaete chrysosporium

US-11-087-099-12203

Query Match 65.2%; Score 30; DB 11; Length 382;  
Best Local Similarity 57.1%; Pred. No. 1.5e+02;  
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 3 QDIETC 9  
|:|:|:  
Db 338 QDIETC 344

RESULT 43  
US-10-763-712A-18  
; Sequence 18, Application US/10763712A  
; Publication No. US2005026541A1  
; GENERAL INFORMATION:  
; APPLICANT: Solazyme, Inc.  
; APPLICANT: Dillon, Harrison F.  
; TITLE OF INVENTION: Methods and Compositions for Evolving Microbial Hydrogen  
; FILE REFERENCE: H2042101-CIP  
; CURRENT APPLICATION NUMBER: US/10/763,712A  
; CURRENT FILING DATE: 2004-01-21  
; PRIOR APPLICATION NUMBER: US 10/287,750  
; PRIOR FILING DATE: 2002-11-04  
; PRIOR APPLICATION NUMBER: US 10/411,910  
; PRIOR FILING DATE: 2003-04-12  
; PRIOR APPLICATION NUMBER: US 60/500,032  
; PRIOR FILING DATE: 2003-09-03  
; NUMBER OF SEQ ID NOS: 184  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 18  
; LENGTH: 1206  
; TYPE: PRT  
; ORGANISM: *Nyctotherus ovalis*  
US-10-763-712A-18

Query Match 65.2%; Score 30; DB 9; Length 1206;  
Best Local Similarity 44.4%; Pred. No. 5.3e+02;  
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 SLODIETC 9  
|:|:|:  
Db 940 SLODIETC 948

RESULT 44  
US-10-763-712A-99  
; Sequence 99, Application US/10763712A  
; Publication No. US2005026541A1  
; GENERAL INFORMATION:  
; APPLICANT: Solazyme, Inc.  
; APPLICANT: Dillon, Harrison F.  
; TITLE OF INVENTION: Methods and Compositions for Evolving Microbial Hydrogen  
; FILE REFERENCE: H2042101-CIP  
; CURRENT APPLICATION NUMBER: US/10/763,712A  
; CURRENT FILING DATE: 2004-01-21  
; PRIOR APPLICATION NUMBER: US 10/287,750  
; PRIOR FILING DATE: 2002-11-04  
; PRIOR APPLICATION NUMBER: US 10/411,910  
; PRIOR FILING DATE: 2003-04-12  
; PRIOR APPLICATION NUMBER: US 60/500,032  
; PRIOR FILING DATE: 2003-09-03  
; NUMBER OF SEQ ID NOS: 184  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 99  
; LENGTH: 1206  
; TYPE: PRT  
; ORGANISM: *Nyctotherus ovalis*  
US-10-763-712A-99

Query Match 65.2%; Score 30; DB 9; Length 1206;

Best Local Similarity 44.4%; Pred. No. 5.3e+02;  
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SLQDIETC 9  
Db 940 SIKDVQSTC 948

RESULT 45

US-11-191-374-10  
; Sequence 10, Application US/11191374  
; Publication No. US20050260673A1

GENERAL INFORMATION:

APPLICANT: Hresko, Michelle Coutu  
APPLICANT: McLaIRD, Merry B.  
APPLICANT: Williams, Deryck J.  
APPLICANT: Frevert, Anita M.  
APPLICANT: Chiappelli, Brandi  
APPLICANT: Baublite, Catherine  
APPLICANT: Kloek, Andrew P.  
APPLICANT: Davila-Aponte, Jennifer A.  
APPLICANT: Bradley, John D.

APPLICANT: Xu, Siqun

TITLE OF INVENTION: NEMATODE PAN AND ZP RECEPTOR-LIKE

FILE REFERENCE: 12557-015001

CURRENT APPLICATION NUMBER: US/11/191,374

PRIOR FILING DATE: 2005-07-28

PRIOR APPLICATION NUMBER: US/10/771,708

PRIOR FILING DATE: 2004-02-04

PRIOR APPLICATION NUMBER: US 60/444,771

NUMBER OF SEQ ID NOS: 54

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 10

LENGTH: 1210

TYPE: PRT

ORGANISM: Meloidogyne javanica

US-11-191-374-10

Query Match Best Local Similarity 65.2%; Score 30; DB 11; Length 1210;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SLQDIETC 8  
Db 106 SLQDINLT 113

RESULT 46

US-11-191-375-10  
; Sequence 10, Application US/11191375  
; Publication No. US20050260674A1

GENERAL INFORMATION:

APPLICANT: Hresko, Michelle Coutu  
APPLICANT: McLaIRD, Merry B.  
APPLICANT: Williams, Deryck J.  
APPLICANT: Frevert, Anita M.  
APPLICANT: Chiappelli, Brandi  
APPLICANT: Baublite, Catherine  
APPLICANT: Kloek, Andrew P.  
APPLICANT: Davila-Aponte, Jennifer A.  
APPLICANT: Bradley, John D.

APPLICANT: Xu, Siqun

TITLE OF INVENTION: NEMATODE PAN AND ZP RECEPTOR-LIKE

FILE REFERENCE: 12557-015001

CURRENT APPLICATION NUMBER: US/11/191,375

PRIOR FILING DATE: 2005-07-28

PRIOR APPLICATION NUMBER: US/10/771,708

PRIOR FILING DATE: 2004-02-04

PRIOR APPLICATION NUMBER: US 60/444,771

PRIOR FILING DATE: 2003-02-04

NUMBER OF SEQ ID NOS: 54  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 10  
LENGTH: 1210  
TYPE: PRT  
ORGANISM: Meloidogyne javanica

US-11-191-375-10

Query Match Best Local Similarity 65.2%; Score 30; DB 11; Length 1210;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SLQDIETC 8  
Db 106 SLQDINLT 113

RESULT 47

US-11-191-588-10  
; Sequence 10, Application US/11191588  
; Publication No. US2005028222A1

GENERAL INFORMATION:

APPLICANT: Hresko, Michelle Coutu  
APPLICANT: McLaIRD, Merry B.  
APPLICANT: Williams, Deryck J.  
APPLICANT: Frevert, Anita M.  
APPLICANT: Chiappelli, Brandi  
APPLICANT: Baublite, Catherine  
APPLICANT: Kloek, Andrew P.  
APPLICANT: Davila-Aponte, Jennifer A.  
APPLICANT: Bradley, John D.

APPLICANT: Xu, Siqun

TITLE OF INVENTION: NEMATODE PAN AND ZP RECEPTOR-LIKE

FILE REFERENCE: 12557-015001

CURRENT APPLICATION NUMBER: US/11/191,588

PRIOR FILING DATE: 2005-07-28

PRIOR APPLICATION NUMBER: US/10/771,708

PRIOR FILING DATE: 2004-02-04

PRIOR APPLICATION NUMBER: US 60/444,771

PRIOR FILING DATE: 2003-02-04

NUMBER OF SEQ ID NOS: 54

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 10

LENGTH: 1210

TYPE: PRT

ORGANISM: Meloidogyne javanica

US-11-191-588-10

Query Match Best Local Similarity 65.2%; Score 30; DB 11; Length 1210;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SLQDIETC 8  
Db 106 SLQDINLT 113

RESULT 48

US-10-511-096-2  
; Sequence 2, Application US/10511096  
; Publication No. US20060052280A1

GENERAL INFORMATION:

APPLICANT: Evotec NeuroSciences GmbH  
APPLICANT: Frevert, Anita M.  
APPLICANT: Chiappelli, Brandi  
APPLICANT: Baublite, Catherine  
APPLICANT: Kloek, Andrew P.  
APPLICANT: Davila-Aponte, Jennifer A.  
APPLICANT: Bradley, John D.

APPLICANT: Xu, Siqun

TITLE OF INVENTION: Diagnostic and therapeutic use of a Golgi protein for

FILE REFERENCE: P67813US1

CURRENT APPLICATION NUMBER: US/10/511,096

PRIOR FILING DATE: 2004-10-14

NUMBER OF SEQ ID NOS: 27

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 2

LENGTH: 2228



; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-511-096-2

Query Match 65.2%; Score 30; DB 9; Length 2228;  
Best Local Similarity 55.6%; Pred. No. 1e+03;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 SLQDIETC 9  
:|:|:|  
Db 1841 TLQEKELTC 1849

RESULT 49  
US-10-511-096-4  
; Sequence 4, Application US/10511096  
; Publication No. US2006052280A1  
; GENERAL INFORMATION:  
; APPLICANT: Evotec NeuroSciences GmbH  
; TITLE OF INVENTION: Diagnostic and therapeutic use of a Golgi protein for  
; TITLE OF INVENTION: neurodegenerative diseases  
; FILE REFERENCE: P67813US1  
; CURRENT APPLICATION NUMBER: US/10/511,096  
; NUMBER OF SEQ ID NOS: 27  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 4  
; LENGTH: 2230  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-511-096-4

Query Match 65.2%; Score 30; DB 9; Length 2230;  
Best Local Similarity 55.6%; Pred. No. 1e+03;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 SLQDIETC 9  
:|:|:|  
Db 1841 TLQEKELTC 1849

RESULT 50  
US-10-511-096-6  
; Sequence 6, Application US/10511096  
; Publication No. US2006052280A1  
; GENERAL INFORMATION:  
; APPLICANT: Evotec NeuroSciences GmbH  
; TITLE OF INVENTION: Diagnostic and therapeutic use of a Golgi protein for  
; TITLE OF INVENTION: neurodegenerative diseases  
; FILE REFERENCE: P67813US1  
; CURRENT APPLICATION NUMBER: US/10/511,096  
; CURRENT FILING DATE: 2004-10-14  
; NUMBER OF SEQ ID NOS: 27  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 6  
; LENGTH: 2250  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-511-096-6

Query Match 65.2%; Score 30; DB 9; Length 2250;  
Best Local Similarity 55.6%; Pred. No. 1e+03;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 SLQDIETC 9  
:|:|:|  
Db 1863 TLQEKELTC 1871

Search completed: May 5, 2006, 07:56:41  
Job time : 9.4 secs

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Copyright (c) 1993 - 2006 Biocelebration Ltd.

OM protein - protein search, using sw model

Run on: May 5, 2006, 01:38:21 ; Search time 20.8 Seconds  
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35.773 Million cell updates/sec

Title: US-08-170-344-23  
Perfect score: 46  
Sequence: 1 LODIETVCV 9

Scoring table: BLOSUM62  
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Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0  
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Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database :  
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4: /cgn2\_6/ptodata/1/1aa/PTCTUS-COMB.pep:\*  
5: /cgn2\_6/ptodata/1/1aa/RE-COMB.pep:\*  
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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	46	100.0	10	2	US-08-159-339A-86
2	46	100.0	15	2	US-08-159-339A-1176
3	46	100.0	32	1	US-08-466-285-2
4	46	100.0	32	2	US-08-164-768-2
5	46	100.0	158	1	US-08-247-904B-10
6	46	100.0	158	1	US-08-767-942A-19
7	46	100.0	271	1	US-08-117-083-14
8	46	100.0	278	2	US-09-485-885-21
9	46	100.0	383	2	US-09-485-885-21
10	40	87.0	127	2	US-09-252-991A-28397
11	37	80.4	873	1	US-08-912-129A-61
12	37	80.4	873	2	US-08-911-824-61
13	35	76.1	724	2	US-09-248-796A-19040
14	34	73.9	369	2	US-09-519-232-74
15	34	73.9	509	2	US-08-809-999D-17
16	34	73.9	509	2	US-09-069-637-17
17	34	73.9	509	2	US-09-322-360-17
18	34	73.9	509	2	US-09-131-831B-17
19	34	73.9	528	2	US-09-949-016-11233
20	34	73.9	3135	1	US-08-923-170B-2
21	34	73.9	3135	2	US-08-954-441-2
22	33	71.7	519	2	US-09-720-655B-1
23	33	71.7	520	2	US-08-964-127-2
24	33	71.7	520	2	US-09-496-692-2
25	33	71.7	520	2	US-10-000-273-2
26	33	71.7	839	2	US-09-949-016-10846
27	32	69.6	53	2	US-09-270-767-61394

28	32	69.6	303	2	US-09-270-767-45862	Sequence 45862, A
29	32	69.6	402	2	US-09-270-767-46012	Sequence 46012, A
30	31	67.4	205	2	US-09-134-001C-4766	Sequence 4766, Ap
31	31	67.4	374	2	US-09-638-937-2	Sequence 2, Appli
32	31	67.4	826	2	US-09-248-796A-14387	Sequence 14387, A
33	31	67.4	852	2	US-09-585-858-19	Sequence 19, Appl
34	31	67.4	852	2	US-10-270-878-19	Sequence 19, Appl
35	31	67.4	934	2	US-09-949-002-513	Sequence 289, App
36	31	67.4	981	2	US-09-501-136-2	Sequence 513, App
37	31	67.4	1039	2	US-09-501-136-2	Sequence 2, Appli
38	31	67.4	1194	1	US-08-680-326-35	Sequence 35, Appl
39	31	67.4	4968	2	US-09-424-783-5	Sequence 5, Appli
40	30	65.2	10	2	US-09-051-529-1	Sequence 1, Appli
41	30	65.2	55	2	US-09-621-976-6262	Sequence 6262, Ap
42	30	65.2	72	2	US-09-621-976-6737	Sequence 6737, Ap
43	30	65.2	126	2	US-09-489-039A-8230	Sequence 8230, Ap
44	30	65.2	281	2	US-09-949-016-6831	Sequence 6831, Ap
45	30	65.2	324	2	US-09-949-016-7870	Sequence 7870, Ap
46	30	65.2	363	2	US-09-328-352-7018	Sequence 7018, Ap
47	30	65.2	455	2	US-09-949-016-6949	Sequence 6949, Ap
48	30	65.2	455	2	US-09-949-016-11026	Sequence 11026, A
49	30	65.2	472	1	US-08-749-903-4	Sequence 4, Appli
50	30	65.2	472	1	US-08-749-903-5	Sequence 5, Appli
51	30	65.2	472	2	US-09-088-641-4	Sequence 4, Appli
52	30	65.2	472	2	US-09-088-641-5	Sequence 5, Appli
53	30	65.2	480	2	US-09-328-352-6949	Sequence 6949, Ap
54	30	65.2	484	2	US-09-134-001C-5402	Sequence 5402, Ap
55	30	65.2	1581	2	US-09-866-108A-15754	Sequence 15754, A
56	30	65.2	1695	2	US-09-866-108A-15753	Sequence 15753, A
57	30	65.2	4861	2	US-09-919-497-70	Sequence 70, Appl
58	29	63.0	61	2	US-09-328-352-7170	Sequence 7170, Ap
59	29	63.0	68	2	US-09-445-480D-22	Sequence 22, Appl
60	29	63.0	70	2	US-09-270-767-58987	Sequence 58987, A
61	29	63.0	134	2	US-09-328-352-6876	Sequence 6876, Ap
62	29	63.0	138	2	US-09-270-767-32066	Sequence 32066, A
63	29	63.0	138	2	US-09-270-767-47283	Sequence 47283, A
64	29	63.0	143	2	US-09-270-767-34149	Sequence 34149, A
65	29	63.0	143	2	US-09-270-767-49366	Sequence 49366, A
66	29	63.0	146	2	US-09-270-767-40291	Sequence 40291, A
67	29	63.0	146	2	US-09-270-767-55507	Sequence 55507, A
68	29	63.0	146	2	US-09-605-703B-1180	Sequence 1180, Ap
69	29	63.0	234	2	US-09-540-236-2198	Sequence 2198, Ap
70	29	63.0	245	2	US-09-543-681A-5699	Sequence 5699, Ap
71	29	63.0	256	2	US-09-248-796A-18537	Sequence 18537, A
72	29	63.0	257	2	US-09-270-767-43610	Sequence 43610, A
73	29	63.0	265	2	US-08-413-805-2	Sequence 2, Appli
74	29	63.0	286	2	US-09-328-352-7626	Sequence 7626, Ap
75	29	63.0	292	2	US-09-240-816B-2	Sequence 2, Appli
76	29	63.0	292	2	US-09-583-110-3960	Sequence 3960, Ap
77	29	63.0	293	2	US-09-248-796A-18536	Sequence 18536, A
78	29	63.0	295	2	US-09-107-433-4794	Sequence 4794, Ap
79	29	63.0	297	1	US-08-738-944-51	Sequence 51, Appl
80	29	63.0	297	2	US-09-263-352-41	Sequence 41, Appl
81	29	63.0	314	2	US-09-134-000C-4187	Sequence 4187, Ap
82	29	63.0	322	2	US-09-919-497-82	Sequence 82, Appl
83	29	63.0	322	2	US-08-964-127-6	Sequence 6, Appli
84	29	63.0	322	2	US-09-496-692-6	Sequence 6, Appli
85	29	63.0	322	2	US-10-000-273-6	Sequence 782, App
86	29	63.0	343	1	US-09-198-452A-782	Sequence 1, Appli
87	29	63.0	343	1	US-08-624-545-1	Sequence 1, Appli
88	29	63.0	343	1	US-09-024-532-4	Sequence 4, Appli
89	29	63.0	344	2	US-07-705-185-4	Sequence 12, Appl
90	29	63.0	344	2	US-07-792-259-12	Sequence 4, Appli
91	29	63.0	345	1	US-09-438-182A-736	Sequence 736, App
92	29	63.0	351	2	US-08-458-023B-6	Sequence 6, Appli
93	29	63.0	363	1	US-07-792-259-17	Sequence 17, Appli
94	29	63.0	364	1	US-10-095-975-2	Sequence 2, Appli
95	29	63.0	376	2	US-09-902-540-15152	Sequence 15152, A
96	29	63.0	384	2	US-09-248-796A-18692	Sequence 18692, A
97	29	63.0	385	2	US-09-605-703B-1178	Sequence 1178, Ap
98	29	63.0	400	2	US-09-181-339-9	Sequence 9, Appli
99	29	63.0	423	2	US-08-331-515A-2	Sequence 2, Appli
100	29	63.0	435	1		

101	29	63.0	435	2	US-09-168-406A-2	Sequence 2, Appli	174	28	60.9	253	2	US-09-697-186B-15	Sequence 16, Appli
102	29	63.0	443	2	US-09-457-046B-50	Sequence 50, Appli	175	28	60.9	253	2	US-09-697-186B-17	Sequence 17, Appli
103	29	63.0	440	2	US-09-866-570B-50	Sequence 50, Appli	176	28	60.9	253	2	US-09-697-186B-18	Sequence 18, Appli
104	29	63.0	493	2	US-09-336-643A-6	Sequence 6, Appli	177	28	60.9	253	2	US-09-697-186B-19	Sequence 19, Appli
105	29	63.0	491	2	US-09-181-339-7	Sequence 7, Appli	178	28	60.9	253	2	US-09-697-186B-20	Sequence 20, Appli
106	29	63.0	491	2	US-09-181-339-7	Sequence 12, Appli	179	28	60.9	301	2	US-09-270-767-43978	Sequence 43978, A
107	29	63.0	492	2	US-09-248-796A-21760	Sequence 21760, A	180	28	60.9	303	2	US-09-722-129-4	Sequence 4, Appli
108	29	63.0	507	2	US-09-949-016-9860	Sequence 9860, Ap	181	28	60.9	335	2	US-09-055-113-1	Sequence 1, Appli
109	29	63.0	582	2	US-09-949-016-9674	Sequence 9674, Ap	182	28	60.9	335	2	US-09-106-872A-17	Sequence 17, Appli
110	29	63.0	695	6	5460961-5	Patent No. 5460961	183	28	60.9	335	2	US-09-570-593-2	Sequence 2, Appli
111	29	63.0	701	2	US-09-087-727-2	Sequence 2, Appli	184	28	60.9	335	2	US-09-570-593-13	Sequence 13, Appli
112	29	63.0	701	2	US-09-853-053-2	Sequence 2, Appli	185	28	60.9	335	2	US-09-866-356-1	Sequence 1, Appli
113	29	63.0	701	2	US-09-949-016-6026	Sequence 6026, Ap	186	28	60.9	335	2	US-09-866-356-1	Sequence 1, Appli
114	29	63.0	734	2	US-09-949-016-6415	Sequence 6415, Ap	187	28	60.9	337	2	US-09-302-540-10279	Sequence 10279, A
115	29	63.0	761	2	US-09-949-016-5802	Sequence 9802, A	188	28	60.9	331	2	US-09-270-767-39825	Sequence 39825, A
116	29	63.0	857	2	US-09-248-796A-20522	Sequence 20522, A	189	28	60.9	352	2	US-09-270-767-55042	Sequence 55042, A
117	29	63.0	873	2	US-09-543-681A-6927	Sequence 6927, Ap	190	28	60.9	357	2	US-09-248-796A-101015	Sequence 18015, A
118	29	63.0	887	2	US-07-596-467-2	Sequence 2, Appli	191	28	60.9	359	2	US-08-483-926A-8	Sequence 8, Appli
119	29	63.0	887	1	US-07-934-374-2	Sequence 2, Appli	192	28	60.9	359	2	US-08-737-045-11	Sequence 11, Appli
120	29	63.0	887	1	US-07-783-861C-4	Sequence 4, Appli	193	28	60.9	359	2	US-08-932-871B-1	Sequence 1, Appli
121	29	63.0	953	1	US-08-506-340A-1	Sequence 1, Appli	194	28	60.9	359	2	US-09-476-919-1	Sequence 1, Appli
122	29	63.0	985	2	US-09-248-796A-16090	Sequence 16090, A	195	28	60.9	359	2	US-08-780-311A-1	Sequence 1, Appli
123	29	63.0	1038	2	US-09-538-092-487	Sequence 487, App	196	28	60.9	361	2	US-09-489-039A-10699	Sequence 10699, A
124	29	63.0	1121	2	US-08-915-048A-2	Sequence 2, Appli	197	28	60.9	364	2	US-08-680-726A-56	Sequence 56, Appli
125	29	63.0	1401	2	US-08-781-891-206	Sequence 206, App	198	28	60.9	364	2	US-09-092-409-56	Sequence 56, Appli
126	29	63.0	1401	2	US-09-127-670-6	Sequence 6, Appli	199	28	60.9	368	2	US-09-248-796A-18500	Sequence 15500, A
127	29	63.0	1401	2	US-09-618-166-206	Sequence 206, App	200	28	60.9	466	1	US-08-644-034-3	Sequence 3, Appli
128	29	63.0	1535	2	US-08-755-587-185	Sequence 185, App	201	28	60.9	468	1	US-09-724-623-119	Sequence 119, Appli
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408	27	58.7	680	2	US-08-761-136-1	Sequence 1, Appl1	481	27	58.7	1411	2	US-09-538-092-413	Sequence 413, App
409	27	58.7	680	2	US-09-576-967-1	Sequence 1, Appl1	482	27	58.7	1579	2	US-08-755-587-184	Sequence 184, App
410	27	58.7	680	2	US-10-219-541-1	Sequence 1, Appl1	483	27	58.7	1683	2	US-08-755-587-183	Sequence 183, App
411	27	58.7	681	2	US-09-134-000C-4371	Sequence 4371, Ap	484	27	58.7	2329	2	US-08-755-587-16	Sequence 16, Appl
412	27	58.7	688	2	US-09-248-796A-17856	Sequence 17856, A	485	27	58.7	3418	1	US-08-639-501-2	Sequence 2, Appl1
413	27	58.7	692	2	US-09-252-991A-26724	Sequence 26724, A	486	27	58.7	3418	1	US-08-603-7530-4	Sequence 4, Appl1
414	27	58.7	710	2	US-09-252-991A-25700	Sequence 25700, A	487	27	58.7	3418	2	US-09-044-946-2	Sequence 2, Appl1
415	27	58.7	726	2	US-10-104-047-2042	Sequence 2042, Ap	488	27	58.7	3418	2	US-08-755-587-44	Sequence 44, Appl
416	27	58.7	733	2	US-09-270-767-41626	Sequence 41626, A	489	27	58.7	3418	2	US-09-044-908-2	Sequence 2, Appl1
417	27	58.7	738	2	US-08-478-208-32	Sequence 2, Appl	490	27	58.7	3418	2	US-09-099-753-4	Sequence 4, Appl1
418	27	58.7	738	2	US-09-336-536-73	Sequence 73, Appl	491	27	58.7	3418	2	US-08-986-106-4	Sequence 4, Appl1
419	27	58.7	738	6	5264554-2	Sequence 8, Appl1	492	27	58.7	4866	2	US-09-424-783-2	Sequence 2, Appl1
420	27	58.7	767	2	US-08-836-567-8	Sequence 8, Appl1	493	27	58.7	4872	2	US-09-424-783-3	Sequence 3, Appl1
421	27	58.7	767	2	US-09-606-304-8	Sequence 8, Appl1	494	26	56.5	10	2	US-08-482-528-108	Sequence 108, App
422	27	58.7	767	2	US-09-328-352-4613	Sequence 4613, Ap	495	26	56.5	10	1	US-08-482-528-108	Sequence 108, App
423	27	58.7	773	2	US-08-434-000A-2	Sequence 2, Appl1	496	26	56.5	11	1	US-08-623-690-6	Sequence 6, Appl1
424	27	58.7	773	2	US-09-312-157-2	Sequence 2, Appl1	497	26	56.5	12	1	US-08-623-690-7	Sequence 7, Appl1
425	27	58.7	773	2	US-09-717-888-2	Sequence 2, Appl1	498	26	56.5	13	1	US-08-488-252-23	Sequence 23, Appl
426	27	58.7	777	2	US-09-811-469-2	Sequence 6, Appl1	499	26	56.5	13	1	US-08-623-690-8	Sequence 8, Appl1
427	27	58.7	777	2	US-09-811-469-2	Sequence 2, Appl1	500	26	56.5	15	1	US-08-245-853-2	Sequence 2, Appl1
428	27	58.7	777	2	US-10-370-659-2	Sequence 2, Appl	501	26	56.5	15	1	US-08-573-675-2	Sequence 2, Appl1
429	27	58.7	779	2	US-09-171-937C-25	Sequence 25, Appl	502	26	56.5	15	6	5470825-2	Patent No. 5470825
430	27	58.7	805	2	US-08-985-526-34	Sequence 34, Appl	503	26	56.5	21	2	US-10-044-708A-4	Sequence 4, Appl1
431	27	58.7	806	1	US-08-443-861-5	Sequence 5, Appl1	504	26	56.5	24	2	US-08-993-235-22	Sequence 22, Appl
432	27	58.7	806	1	US-08-193-8298-5	Sequence 5, Appl1	505	26	56.5	24	1	US-10-076-622-627	Sequence 627, App
433	27	58.7	806	2	US-09-766-678-5	Sequence 5, Appl1	506	26	56.5	27	1	US-08-406-3347A-10	Sequence 10, Appl
434	27	58.7	817	2	US-09-710-279-2948	Sequence 2948, Ap	507	26	56.5	31	1	US-08-143-311B-10	Sequence 10, Appl
435	27	58.7	820	2	US-08-779-4608-2	Sequence 2, Appl1	508	26	56.5	31	2	US-08-753-851-12	Sequence 12, Appl
436	27	58.7	834	2	US-09-167-999-11	Sequence 11, Appl	509	26	56.5	33	1	US-08-488-252-11	Sequence 11, Appl
437	27	58.7	868	2	US-10-290-579A-256	Sequence 256, App	510	26	56.5	33	4	PCT-US92-06686-2	Sequence 2, Appl1
438	27	58.7	871	2	US-09-949-016-6814	Sequence 6814, Ap	511	26	56.5	55	2	US-09-270-767-34910	Sequence 34910, A
439	27	58.7	875	2	US-09-585-858-18	Sequence 18, Appl	512	26	56.5	55	2	US-09-270-767-36044	Sequence 36044, A
440	27	58.7	875	2	US-10-270-878-18	Sequence 18, Appl	513	26	56.5	60	2	US-09-270-767-5161	Sequence 5161, A
441	27	58.7	886	2	US-09-134-001C-4496	Sequence 4496, Ap	514	26	56.5	61	2	US-09-348-796A-21117	Sequence 21117, A
442	27	58.7	910	2	US-09-134-000C-4677	Sequence 4677, Ap	515	26	56.5	61	2	US-08-303-861-16	Sequence 16, Appl
443	27	58.7	910	2	US-09-270-767-42083	Sequence 42083, A	516	26	56.5	66	2	US-08-569-9147-85	Sequence 85, Appl
444	27	58.7	934	2	US-09-252-991A-25635	Sequence 25635, A	517	26	56.5	66	2	US-09-248-796A-26043	Sequence 26043, A
445	27	58.7	947	1	US-08-500-857A-4	Sequence 4, Appl1	518	26	56.5	83	2	US-09-513-999C-4553	Sequence 4553, Ap
446	27	58.7	970	1	US-08-673-789-7	Sequence 7, Appl1	519	26	56.5	83	2	US-09-471-276-1470	Sequence 1470, Ap
447	27	58.7	970	1	US-08-449-645A-11	Sequence 11, Appl	520	26	56.5	83	2	US-09-248-796A-16730	Sequence 16730, A
448	27	58.7	970	1	US-08-702-367A-11	Sequence 11, Appl	521	26	56.5	85	2	US-08-594-699-63	Sequence 63, Appl
449	27	58.7	970	4	PCT-US95-04681-11	Sequence 11, Appl	522	26	56.5	93	2	US-09-444-410-63	Sequence 63, Appl
450	27	58.7	988	1	US-08-162-809-10	Sequence 10, Appl	523	26	56.5	94	2	US-08-994-699-62	Sequence 62, Appl
451	27	58.7	988	1	US-08-162-809-14	Sequence 14, Appl	524	26	56.5	94	2	US-09-444-410-62	Sequence 62, Appl
452	27	58.7	993	2	US-09-060-410-4	Sequence 4, Appl1	525	26	56.5	94	2	US-09-370-767-33064	Sequence 33064, A
453	27	58.7	993	2	US-09-723-458-4	Sequence 4, Appl1	526	26	56.5	95	2	US-09-270-767-33572	Sequence 33572, A
454	27	58.7	994	2	US-08-542-635-2	Sequence 2, Appl1	527	26	56.5	95	2	US-09-270-767-33572	Sequence 33572, A
455	27	58.7	995	1	US-08-162-809-18	Sequence 18, Appl	528	26	56.5	95	2	US-09-270-767-48481	Sequence 48281, A
456	27	58.7	995	1	US-08-673-789-5	Sequence 5, Appl1	529	26	56.5	95	2	US-09-770-767-48789	Sequence 48789, A
457	27	58.7	1011	1	US-08-162-809-12	Sequence 12, Appl	530	26	56.5	97	1	US-09-047-125-19	Sequence 19, Appl
458	27	58.7	1054	1	US-07-934-374-4	Sequence 4, Appl1	531	26	56.5	97	2	US-07-736-335E-19	Sequence 19, Appl
459	27	58.7	1054	1	US-07-783-661C-2	Sequence 4, Appl1	532	26	56.5	100	2	US-08-851-843A-10	Sequence 10, Appl
460	27	58.7	1054	1	US-07-783-661C-2	Sequence 4, Appl1	533	26	56.5	100	2	US-08-854-050-10	Sequence 10, Appl
461	27	58.7	1094	1	US-08-680-326-40	Sequence 40, Appl	534	26	56.5	100	2	US-09-430-323-10	Sequence 10, Appl
462	27	58.7	1220	1	US-08-680-326-38	Sequence 38, Appl	535	26	56.5	100	2	US-09-402-181B-132	Sequence 132, App
463	27	58.7	1270	2	US-09-538-092-1321	Sequence 1321, Ap	536	26	56.5	100	2	US-09-721-456-192	Sequence 192, App
464	27	58.7	1288	1	US-07-727-814B-2	Sequence 2, Appl1	537	26	56.5	100	2	US-09-721-456-192	Sequence 192, App
465	27	58.7	1288	1	US-08-258-614-2	Sequence 2, Appl1	538	26	56.5	100	2	US-09-766-253-10	Sequence 10, Appl

539	26	56.5	100	2	US-10-054-295-10	Sequence 10, Appl	612	26	56.5	212	4	PCT-US95-10245-7	Sequence 7, Appl
540	26	56.5	100	2	US-09-438-486A-10	Sequence 10, Appl	613	26	56.5	213	2	US-09-352-91A-30766	Sequence 30766, A
541	26	56.5	104	2	US-09-394-268-2	Sequence 2, Appl	614	26	56.5	217	2	US-09-483-588-5	Sequence 5, Appl
542	26	56.5	104	2	US-09-687-748-2	Sequence 2, Appl	615	26	56.5	218	2	US-09-483-588-3	Sequence 3, Appl
543	26	56.5	105	1	US-08-232-539D-60	Sequence 60, Appl	616	26	56.5	218	2	US-09-483-588-4	Sequence 4, Appl
544	26	56.5	106	2	US-09-240-274-50	Sequence 50, Appl	617	26	56.5	218	2	US-09-483-588-6	Sequence 6, Appl
545	26	56.5	106	2	US-09-848-798-50	Sequence 50, Appl	618	26	56.5	222	2	US-09-483-588-7	Sequence 7, Appl
546	26	56.5	109	1	US-08-070-116A-4	Sequence 4, Appl	619	26	56.5	228	2	US-09-540-336-2168	Sequence 2168, Ap
547	26	56.5	109	1	US-08-444-644-30	Sequence 30, Appl	620	26	56.5	223	2	US-10-135-636-3	Sequence 3, Appl
548	26	56.5	109	2	US-08-232-246A-30	Sequence 30, Appl	621	26	56.5	224	2	US-09-902-540-10058	Sequence 10058, A
549	26	56.5	109	2	US-08-557-050-4	Sequence 4, Appl	622	26	56.5	228	2	US-09-428-082B-2	Sequence 2, Appl
550	26	56.5	110	2	US-08-444-644-31	Sequence 21, Appl	623	26	56.5	228	2	US-09-847-249A-2	Sequence 2, Appl
551	26	56.5	110	2	US-08-444-644-38	Sequence 38, Appl	624	26	56.5	228	2	US-09-840-669B-2	Sequence 2, Appl
552	26	56.5	110	2	US-08-444-644-44	Sequence 44, Appl	625	26	56.5	228	2	US-09-843-221A-2	Sequence 27, Appl
553	26	56.5	110	2	US-08-233-246A-21	Sequence 21, Appl	626	26	56.5	228	2	US-09-709-704A-2	Sequence 2, Appl
554	26	56.5	110	2	US-08-233-246A-38	Sequence 38, Appl	627	26	56.5	228	2	US-09-422-838C-5	Sequence 5, Appl
555	26	56.5	110	2	US-08-232-246A-44	Sequence 44, Appl	628	26	56.5	228	2	US-09-932-812A-27	Sequence 27, Appl
556	26	56.5	112	2	US-09-248-796A-25672	Sequence 25672, A	629	26	56.5	228	2	US-10-666-480-60	Sequence 60, Appl
557	26	56.5	113	2	US-09-198-452A-54	Sequence 54, Appl	630	26	56.5	228	2	US-09-122-144-2	Sequence 2, Appl
558	26	56.5	113	2	US-09-621-976-4026	Sequence 4026, Ap	631	26	56.5	229	2	US-09-968-362A-28	Sequence 28, Appl
559	26	56.5	114	2	US-09-602-777A-204	Sequence 204, Ap	632	26	56.5	229	2	US-09-932-812A-28	Sequence 28, Appl
560	26	56.5	116	1	US-08-233-539D-55	Sequence 55, Appl	633	26	56.5	232	1	US-07-797-556-4	Sequence 4, Appl
561	26	56.5	119	2	US-09-232-290-31	Sequence 31, Appl	634	26	56.5	232	1	US-08-225-989-4	Sequence 4, Appl
562	26	56.5	121	2	US-08-111-080-20	Sequence 20, Appl	635	26	56.5	232	1	US-08-570-923-4	Sequence 4, Appl
563	26	56.5	121	1	US-08-211-980-20	Sequence 9, Appl	636	26	56.5	232	1	US-08-580-014-4	Sequence 4, Appl
564	26	56.5	121	1	US-08-211-980-20	Sequence 20, Appl	637	26	56.5	232	1	US-08-308-881-4	Sequence 4, Appl
565	26	56.5	121	4	PCT-US93-07967-20	Sequence 7, Appl	638	26	56.5	232	1	US-09-058-263-4	Sequence 4, Appl
566	26	56.5	129	2	US-09-476-482-7	Sequence 7, Appl	639	26	56.5	232	1	US-09-059-099-4	Sequence 50, Appl
567	26	56.5	133	2	US-09-543-681A-5782	Sequence 5782, Ap	640	26	56.5	232	1	US-08-595-043A-50	Sequence 4, Appl
568	26	56.5	134	1	US-08-111-080-16	Sequence 16, Appl	641	26	56.5	232	2	US-09-058-164-4	Sequence 8, Appl
569	26	56.5	134	1	US-08-211-980-16	Sequence 16, Appl	642	26	56.5	232	2	US-08-996-139-8	Sequence 8, Appl
570	26	56.5	134	4	PCT-US92-07111-15	Sequence 15, Appl	643	26	56.5	232	2	US-09-079-785-4	Sequence 8, Appl
571	26	56.5	134	4	PCT-US93-07967-16	Sequence 16, Appl	644	26	56.5	232	2	US-08-995-659-8	Sequence 8, Appl
572	26	56.5	136	2	US-09-621-976-4224	Sequence 4224, A	645	26	56.5	232	2	US-08-215-649A-8	Sequence 8, Appl
573	26	56.5	138	2	US-09-270-767-36400	Sequence 36400, A	646	26	56.5	232	2	US-09-577-800-8	Sequence 8, Appl
574	26	56.5	138	2	US-09-270-767-51617	Sequence 51617, A	647	26	56.5	232	2	US-09-577-800-8	Sequence 8, Appl
575	26	56.5	138	2	US-09-438-185A-39	Sequence 39, Appl	648	26	56.5	232	2	US-09-455-962-4	Sequence 8, Appl
576	26	56.5	138	2	US-09-471-276-1293	Sequence 1293, Ap	649	26	56.5	232	2	US-09-466-486-8	Sequence 8, Appl
577	26	56.5	146	2	US-09-771-161A-170	Sequence 170, App	650	26	56.5	232	2	US-09-871-856-8	Sequence 8, Appl
578	26	56.5	150	2	US-09-809-665A-141	Sequence 141, App	651	26	56.5	232	2	US-09-871-856-8	Sequence 8, Appl
579	26	56.5	155	2	US-09-489-039A-7828	Sequence 7828, A	652	26	56.5	232	2	US-09-252-991A-25200	Sequence 25200, A
580	26	56.5	157	2	US-09-270-767-31977	Sequence 37977, A	653	26	56.5	232	2	US-09-871-291-8	Sequence 8, Appl
581	26	56.5	157	2	US-09-270-767-42022	Sequence 42022, A	654	26	56.5	232	2	US-09-871-291-8	Sequence 8, Appl
582	26	56.5	157	2	US-09-270-767-53194	Sequence 53194, A	655	26	56.5	232	2	US-09-871-291-8	Sequence 8, Appl
583	26	56.5	162	2	US-09-513-999C-5049	Sequence 5049, Ap	656	26	56.5	232	2	US-09-871-291-8	Sequence 8, Appl
584	26	56.5	164	2	US-09-312-283C-385	Sequence 385, App	657	26	56.5	232	2	US-09-628-126-4	Sequence 8, Appl
585	26	56.5	168	2	US-09-134-000C-5920	Sequence 5920, Ap	658	26	56.5	232	2	US-09-688-459-8	Sequence 8, Appl
586	26	56.5	171	2	US-09-640-211A-1058	Sequence 1058, Ap	659	26	56.5	232	2	US-09-932-812A-26	Sequence 26, Appl
587	26	56.5	173	2	US-09-902-540-11840	Sequence 11840, A	660	26	56.5	232	4	PCT-US95-06530-4	Sequence 4, Appl
588	26	56.5	180	2	US-09-328-352-4511	Sequence 4511, Ap	661	26	56.5	232	4	PCT-US95-15781-8	Sequence 8, Appl
589	26	56.5	181	4	PCT-US93-07805-1	Sequence 43100, A	662	26	56.5	233	2	US-09-485-737B-69	Sequence 69, Appl
590	26	56.5	184	2	US-09-270-767-43100	Sequence 43100, A	663	26	56.5	233	2	US-10-071-485-69	Sequence 10, Appl
591	26	56.5	196	4	PCT-US91-09055-5	Sequence 5, Appl	664	26	56.5	234	1	US-08-287-959-19	Sequence 30807, A
592	26	56.5	204	6	5187075-6	Patent No. 5187075	665	26	56.5	234	2	US-09-252-991A-30807	Sequence 30807, A
593	26	56.5	207	2	US-09-605-703B-1088	Sequence 1088, Ap	666	26	56.5	234	2	US-09-673-385A-232	Sequence 232, App
594	26	56.5	212	1	US-08-430-633-4	Sequence 4, Appl	667	26	56.5	234	2	US-08-756-416-33	Sequence 33, Appl
595	26	56.5	212	1	US-08-663-566A-7	Sequence 7, Appl	668	26	56.5	235	2	US-09-131-247-6	Sequence 6, Appl
596	26	56.5	212	1	US-08-620-694A-4	Sequence 4, Appl	669	26	56.5	235	2	US-09-784-623-6	Sequence 2, Appl
597	26	56.5	212	1	US-08-936-854-4	Sequence 4, Appl	670	26	56.5	236	2	US-09-827-668-2	Sequence 3479, Ap
598	26	56.5	212	1	US-08-023-610-7	Sequence 7, Appl	671	26	56.5	240	2	US-09-583-110-3479	Sequence 3623, Ap
599	26	56.5	212	1	US-08-288-065A-7	Sequence 7, Appl	672	26	56.5	241	2	US-09-114-000C-3623	Sequence 11, Appl
600	26	56.5	212	1	US-08-362-240A-7	Sequence 7, Appl	673	26	56.5	241	2	US-09-915-789A-11	Sequence 1068, Ap
601	26	56.5	212	2	US-09-022-255-4	Sequence 4, Appl	674	26	56.5	243	1	US-09-428-082B-1068	Sequence 8, Appl
602	26	56.5	212	2	US-09-022-696-4	Sequence 4, Appl	675	26	56.5	245	1	US-07-943-843-8	Sequence 15, Appl
603	26	56.5	212	2	US-09-022-253-4	Sequence 4, Appl	676	26	56.5	245	1	US-08-236-918A-15	Sequence 8, Appl
604	26	56.5	212	2	US-09-022-260-4	Sequence 4, Appl	677	26	56.5	245	1	US-08-347-003-8	Sequence 121, App
605	26	56.5	212	2	US-08-804-372A-5	Sequence 5, Appl	678	26	56.5	245	2	US-08-906-616-121	Sequence 121, App
606	26	56.5	212	2	US-09-022-259-4	Sequence 4, Appl	679	26	56.5	245	2	US-08-639-075A-121	Sequence 121, App
607	26	56.5	212	2	US-09-022-257-4	Sequence 4, Appl	680	26	56.5	245	2	US-09-012-431-121	Sequence 121, App
608	26	56.5	212	2	US-09-549-679-4	Sequence 4, Appl	681	26	56.5	245	2	US-09-012-692-121	Sequence 121, App
609	26	56.5	212	2	US-09-270-767-31900	Sequence 31900, A	682	26	56.5	245	2	US-08-906-613-131	Sequence 121, App
610	26	56.5	212	2	US-09-270-767-47117	Sequence 47117, A	683	26	56.5	245	2	US-08-906-613-131	Sequence 121, App
611	26	56.5	212	2	US-10-033-522-2	Sequence 2, Appl	684	26	56.5	245	2	US-09-150-864A-15	Sequence 15, Appl

685	26	56.5	247	2	US-09-428-082B-6	Sequence 6, Appl1	758	26	56.5	328	2	US-08-808-720-1	Sequence 1, Appl1
686	26	56.5	247	2	US-09-428-082B-12	Sequence 12, Appl1	759	26	56.5	328	2	US-09-467-638-1	Sequence 1, Appl1
687	26	56.5	248	1	US-08-851-974-3	Sequence 3, Appl1	760	26	56.5	329	2	US-09-313-942-12	Sequence 12, Appl1
688	26	56.5	248	1	US-09-213-390-3	Sequence 3, Appl1	761	26	56.5	329	2	US-10-282-162-12	Sequence 12, Appl1
689	26	56.5	248	2	US-09-428-082B-1056	Sequence 1056, Ap	762	26	56.5	330	2	US-09-301-593-22	Sequence 22, Appl1
690	26	56.5	248	2	US-09-428-082B-1058	Sequence 1058, Ap	763	26	56.5	330	2	US-09-248-796A-16781	Sequence 16781, A
691	26	56.5	248	2	US-09-428-082B-1060	Sequence 1060, Ap	764	26	56.5	331	1	US-08-646-981-17	Sequence 17, Appl1
692	26	56.5	248	2	US-09-428-082B-1062	Sequence 1062, Ap	765	26	56.5	331	2	US-08-808-720-5	Sequence 5, Appl1
693	26	56.5	250	2	US-09-428-082B-1070	Sequence 1070, Ap	766	26	56.5	331	2	US-08-808-720-7	Sequence 7, Appl1
694	26	56.5	252	2	US-09-428-082B-1064	Sequence 1064, Ap	767	26	56.5	331	2	US-09-178-869-2	Sequence 2, Appl1
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699	26	56.5	254	2	US-09-218-950-33	Sequence 33, Appl1	772	26	56.5	334	1	US-08-646-981-16	Sequence 16, Appl1
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706	26	56.5	269	2	US-09-428-082B-10	Sequence 10, Appl1	779	26	56.5	338	2	US-10-115-123-194	Sequence 194, App
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861	26	56.5	424	4	PCT-US95-03866-12	Sequence 12, Appli	934	26	56.5	450	2	US-09-996-288-212	Sequence 212, App
862	26	56.5	424	4	PCT-US95-03866-14	Sequence 14, Appli	935	26	56.5	450	2	US-09-996-288-216	Sequence 216, App
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876	26	56.5	432	2	US-09-339-338-181	Sequence 181, App	949	26	56.5	450	2	US-09-996-288-244	Sequence 244, App
877	26	56.5	432	2	US-09-433-826B-181	Sequence 181, App	950	26	56.5	450	2	US-09-996-288-246	Sequence 246, App
878	26	56.5	432	2	US-09-604-287A-181	Sequence 181, App	951	26	56.5	450	2	US-09-996-288-248	Sequence 248, App
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577 26 56.5 450 2 US-09-996-265-248 Sequence 248, App
578 26 56.5 450 2 US-09-996-265-250 Sequence 250, App
579 26 56.5 450 2 US-09-996-265-252 Sequence 252, App
580 26 56.5 450 2 US-09-996-265-254 Sequence 254, App
581 26 56.5 450 2 US-09-996-265-256 Sequence 256, App
582 26 56.5 450 2 US-10-135-636-1 Sequence 1, Appl
583 26 56.5 451 1 US-08-887-352B-14 Sequence 16, Appl
584 26 56.5 451 1 US-08-887-352B-16 Sequence 18, Appl
585 26 56.5 451 1 US-08-887-352B-18 Sequence 18, Appl
586 26 56.5 451 2 US-08-466-151-65 Sequence 65, Appl
587 26 56.5 451 2 US-09-109-207C-14 Sequence 14, Appl
588 26 56.5 451 2 US-09-109-207C-16 Sequence 16, Appl
589 26 56.5 451 2 US-09-109-207C-18 Sequence 18, Appl
590 26 56.5 451 2 US-09-282-505-2 Sequence 2, Appl
591 26 56.5 451 2 US-09-054-255-2 Sequence 2, Appl
592 26 56.5 451 2 US-09-296-005-14 Sequence 14, Appl
593 26 56.5 451 2 US-09-296-005-16 Sequence 16, Appl
594 26 56.5 451 2 US-09-296-005-18 Sequence 18, Appl
595 26 56.5 451 2 US-09-247-352-3 Sequence 3, Appl
596 26 56.5 451 2 US-09-466-635-3 Sequence 3, Appl
597 26 56.5 451 2 US-09-282-846-2 Sequence 2, Appl
598 26 56.5 451 2 US-09-680-145-2 Sequence 2, Appl
599 26 56.5 451 2 US-09-920-171-14 Sequence 14, Appl
1000 26 56.5 451 2 US-09-920-171-16 Sequence 16, Appl
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## ALIGNMENTS

```
RESULT 1
US-08-159-339A-86
; Sequence 86, Application US/08159339A
; Patent No. 6037135
; GENERAL INFORMATION:
; APPLICANT: Kubo, Ralph T.
; APPLICANT: Grey, Howard M.
; APPLICANT: Sette, Alessandro
; APPLICANT: Celis, Esteban
; TITLE OF INVENTION: HLA Binding peptides and Their
; TITLE OF INVENTION: Uses
; NUMBER OF SEQUENCES: 1254
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/159,339A
; FILING DATE: 29-NOV-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/926,666
; FILING DATE: 07-AUG-1992
; APPLICATION NUMBER: US 08/027,746
; FILING DATE: 05-MAR-1993
; APPLICATION NUMBER: US 08/103,396
; FILING DATE: 06-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Ellen Lauver
; REGISTRATION NUMBER: 32,762
; REFERENCE/DOCKET NUMBER: 018623-005030US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; TELEX:
; INFORMATION FOR SEQ ID NO: 86:
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```
SEQUENCE CHARACTERISTICS:
; LENGTH: 10 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-159-339A-86
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Query Match 100.0%; Score 46; DB 2; Length 10;  
Best Local Similarity 100.0%; Pred. No. 0.015;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 1 LQDIETCV 9
Db 1 LQDIETCV 9
```

```
RESULT 2
US-08-159-339A-1176
; Sequence 1176, Application US/08159339A
; Patent No. 6037135
; GENERAL INFORMATION:
; APPLICANT: Kubo, Ralph T.
; APPLICANT: Grey, Howard M.
; APPLICANT: Sette, Alessandro
; APPLICANT: Celis, Esteban
; TITLE OF INVENTION: HLA Binding peptides and Their
; TITLE OF INVENTION: Uses
; NUMBER OF SEQUENCES: 1254
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/159,339A
; FILING DATE: 29-NOV-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/926,666
; FILING DATE: 07-AUG-1992
; APPLICATION NUMBER: US 08/027,746
; FILING DATE: 05-MAR-1993
; APPLICATION NUMBER: US 08/103,396
; FILING DATE: 06-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Ellen Lauver
; REGISTRATION NUMBER: 32,762
; REFERENCE/DOCKET NUMBER: 018623-005030US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; TELEX:
; INFORMATION FOR SEQ ID NO: 1176:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-159-339A-1176
```

Query Match 100.0%; Score 46; DB 2; Length 15;  
Best Local Similarity 100.0%; Pred. No. 0.023;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LODIETCV 9  
|||||  
Db 4 LODIETCV 12

## RESULT 3

US-08-466-285-2  
; Sequence 2, Application US/08466285  
; Patent No. 5753233  
; GENERAL INFORMATION:  
; APPLICANT: Bleul, Conrad  
; APPLICANT: Gissmann, Lutz  
; APPLICANT: Muller, Martin  
; TITLE OF INVENTION: Seroreactive Epitopes On Proteins Of  
; NUMBER OF SEQUENCES: 7  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &  
; ADDRESS: Dunner  
; STREET: 1300 I Street, N.W., Suite 700  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20005-3315  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/466,285  
; FILING DATE: 06-JUN-1995  
; CLASSIFICATION: 424  
; TELECOMMUNICATION INFORMATION:  
; APPLICATION NUMBER: US 08/164,768  
; FILING DATE: 10-DEC-1993  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/947,992  
; FILING DATE: 21-SEP-1992  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/696,953  
; FILING DATE: 08-MAY-1991  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: P 40 15 044.5  
; FILING DATE: 10-MAY-1990  
; CLASSIFICATION: 424  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Manspeizer, David A.  
; REGISTRATION NUMBER: 37,540  
; REFERENCE/DOCKET NUMBER: 05552.1075-03000  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202)408-4000  
; TELEFAX: (202)408-4400  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 32 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; US-08-466-285-2

Query Match 100.0%; Score 46; DB 1; Length 32;  
Best Local Similarity 100.0%; Pred. No. 0.051;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LODIETCV 9  
|||||  
Db 20 LODIETCV 28

RESULT 4  
US-08-164-768-2  
; Sequence 2, Application US/08164768  
; Patent No. 6322794  
; GENERAL INFORMATION:  
; APPLICANT: BLEUL, Conrad  
; APPLICANT: GISSMANN, Lutz  
; APPLICANT: MULLER, Martin  
; TITLE OF INVENTION: SEROREACTIVE EPITOPES ON PROTEINS OF  
; NUMBER OF SEQUENCES: 7  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: FINNEGAN, HENDERSON, FARABOW, GARRETT &  
; ADDRESS: DUNNER, L.L.P.  
; STREET: 1300 I Street, N.W.  
; CITY: Washington  
; STATE: DC  
; COUNTRY: USA  
; ZIP: 20005

; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/164,768  
; FILING DATE: 10-DEC-1993  
; CLASSIFICATION: 424  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Roman, David S.  
; REGISTRATION NUMBER: 33,694  
; REFERENCE/DOCKET NUMBER: 05552.1075-02000  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202) 408-4400  
; TELEFAX: (202) 408-4400  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 32 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; US-08-164-768-2

Query Match 100.0%; Score 46; DB 2; Length 32;  
Best Local Similarity 100.0%; Pred. No. 0.051;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LODIETCV 9  
|||||  
Db 20 LODIETCV 28

## RESULT 5

US-08-247-904B-10  
; Sequence 10, Application US/08247904B  
; Patent No. 5981699  
; GENERAL INFORMATION:  
; APPLICANT: Rolfe, Mark  
; APPLICANT: Eckstein, Jens W.  
; APPLICANT: Draetta, Giulio  
; TITLE OF INVENTION: Human Ubiquitin Conjugating Enzyme  
; NUMBER OF SEQUENCES: 17  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Foley, Hoag & Bliot  
; STREET: One Post Office Square  
; CITY: Boston  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02109

; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk

```
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII(text)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/247,904B
FILING DATE: 23-MAY-1994
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Vincent, Matthew P.
REGISTRATION NUMBER: 36,709
REFERENCE/DOCKET NUMBER: MIV-029.01
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 832-1000
TELEFAX: (617) 832-7000
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 158 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-247-904B-10
```

```
Query Match          100.0%; Score 46; DB 1; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.28;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
OY      1 LODIIRTCV 9
        |||||
Db      25 LODIIRTCV 33
```

```
RESULT 6
US-08-767-942A-19
; Sequence 19, Application US/08767942A
; Patent No. 6068982
; GENERAL INFORMATION:
; APPLICANT: Rolfe, Mark
; APPLICANT: Chin, M. Isabel
; APPLICANT: Berlin, Vivian
; APPLICANT: Damagnez, Veronique
; APPLICANT: Draetta, Giulio
; APPLICANT: Guillaume, Cottarel
; TITLE OF INVENTION: UBIQUITIN CONJUGATING ENZYMES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY, HOAG & ELIOT LLP
; STREET: One Post Office Square
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109-2170
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/767,942A
; FILING DATE: 17-DEC-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Vincent, Matthew P.
; REGISTRATION NUMBER: 36,709
; REFERENCE/DOCKET NUMBER: MIV-029.04
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-832-1000
; TELEFAX: 617-832-7000
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 158 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-767-942A-19
```

```
Query Match          100.0%; Score 46; DB 2; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.28;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 LODIIRTCV 9
        |||||
Db      25 LODIIRTCV 33
```

```
RESULT 7
US-08-117-083-14
; Sequence 14, Application US/08117083
; Patent No. 571954
; GENERAL INFORMATION:
; APPLICANT: Bourasnell, Michael E.
; APPLICANT: Inglis, Stephen C.
; APPLICANT: Munro, Alan J.
; TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human
; NUMBER OF SEQUENCES: 70
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Walter H. Dregger
; STREET: 4 Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/117,083
; FILING DATE: 10-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Dregger, Walter H.
; REGISTRATION NUMBER: 24,190
; REFERENCE/DOCKET NUMBER: A-58783
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-781-1989
; TELEFAX: 415-398-3249
; TELEX: 910 277299
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 271 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..271
; OTHER INFORMATION: /note="Xaa refers to stop codon in
; the open reading frame."
US-08-117-083-14

Query Match          100.0%; Score 46; DB 1; Length 271;
Best Local Similarity 100.0%; Pred. No. 0.5;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 LODIIRTCV 9
        |||||
Db      26 LODIIRTCV 34
```

```
RESULT 8
US-09-485-885-21
; Sequence 21, Application US/09485885
; Patent No. 634224
; GENERAL INFORMATION:
```

APPLICANT: Bruck, Claudine  
APPLICANT: Cabezon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Fernande  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheith, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 21  
LENGTH: 278  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-485-885-21

Query Match 100.0%; Score 46; DB 2; Length 278;  
Best Local Similarity 100.0%; Pred. No. 0.51;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LODIETVCV 9  
Db 136 LODIETVCV 144

RESULT 9  
US-09-485-885-23  
Sequence 23, Application US/09485885  
Patent No. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabezon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Fernande  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheith, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 23  
LENGTH: 383  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-485-885-23

Query Match 100.0%; Score 46; DB 2; Length 383;  
Best Local Similarity 100.0%; Pred. No. 0.72;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LODIETVCV 9  
Db 136 LODIETVCV 144

RESULT 10  
US-09-252-991A-28397  
Sequence 28397, Application US/09252991A  
Patent No. 6551795  
GENERAL INFORMATION:  
APPLICANT: Marc J. Rubenfield et al.  
TITLE OF INVENTION: NUCLEIC ACID SEQUENCES RELATING TO PSEUDOMONAS  
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 107196.136  
CURRENT APPLICATION NUMBER: US/09/252,991A  
CURRENT FILING DATE: 1999-02-18  
PRIOR APPLICATION NUMBER: US 60/074,788  
PRIOR FILING DATE: 1998-02-18  
PRIOR APPLICATION NUMBER: US 60/094,190  
PRIOR FILING DATE: 1998-07-27  
NUMBER OF SEQ ID NOS: 33142  
SEQ ID NO 28397  
LENGTH: 127  
TYPE: PRT  
ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-28397

Query Match 87.0%; Score 40; DB 2; Length 127;  
Best Local Similarity 77.8%; Pred. No. 3;  
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LODIETVCV 9  
Db 32 LODIETVCV 40

RESULT 11  
US-08-912-129A-61  
Sequence 61, Application US/08912129A  
Patent No. 5922533  
GENERAL INFORMATION:  
APPLICANT: VALIARI, ANADRUZEIA S.  
APPLICANT: HACKETT, JOHN JR.  
APPLICANT: HICKMAN, ROBERT K.  
APPLICANT: VARTER, VINCENT A. JR.  
APPLICANT: NECKLAMS, ELIZABETH A.  
APPLICANT: GOLDEN, ALAN M.  
APPLICANT: BRENNAN, CATHERINE A.  
APPLICANT: DEVARE, SUSIL G.  
TITLE OF INVENTION: RAPID ASSAY FOR SIMULTANEOUS DETECTION AND DIFFERENTIATIO  
NUMBER OF SEQUENCES: 89  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Abbott Laboratories  
STREET: 100 Abbott Park Road  
CITY: Abbott Park  
STATE: IL  
COUNTRY: USA  
ZIP: 60064-3500  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 inch diskette, 1.44 MB  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: MS-DOS (Windows 95)  
SOFTWARE: Microsoft Word (ASCII format output)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/912,129A  
FILING DATE: 15-AUG-1997  
CLASSIFICATION: 436  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Danckere, Andreas M.  
REGISTRATION NUMBER: 32,652  
REFERENCE/DOCKET NUMBER: 6109.US.01  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 847-937-9803  
TELEFAX: 847-938-2623  
TELEX:  
INFORMATION FOR SEQ ID NO: 61:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 873 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: Protein  
US-08-912-129A-61

Query Match 80.4%; Score 37; DB 1; Length 873;  
Best Local Similarity 100.0%; Pred. No. 87;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 DIBITCV 9  
|||||  
DB 293 DIBITCV 299

## RESULT 12

US-08-911-824-61  
; Sequence 61, Application US/08911824  
; Patent No. 6846905  
; GENERAL INFORMATION:  
; APPLICANT: Abbott Laboratories  
; APPLICANT: Hackett, John R., Jr.  
; APPLICANT: Yamaguchi, Julie  
; APPLICANT: Golden, Alan M.  
; APPLICANT: Brennan, Catherine A.  
; APPLICANT: Hickman, Robert K.  
; APPLICANT: Devare, Sushil G.  
; TITLE OF INVENTION: NOVEL ANTIGEN CONSTRUCTS USEFUL IN THE  
; TITLE OF INVENTION: DETECTION AND DIFFERENTIATION OF ANTIBODIES TO HIV  
; FILE REFERENCE: 6165.US.01  
; CURRENT APPLICATION NUMBER: US/08/911,824  
; CURRENT FILING DATE: 1997-08-15  
; NUMBER OF SEQ ID NOS: 121  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 61  
; LENGTH: 873  
; TYPE: PRT  
; ORGANISM: Human Immunodeficiency Virus  
; FEATURE:  
; OTHER INFORMATION: HIV-1 Group O isolate HAM112  
US-08-911-824-61

Query Match 80.4%; Score 37; DB 2; Length 873;  
Best Local Similarity 100.0%; Pred. No. 87;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 DIBITCV 9  
|||||  
DB 293 DIBITCV 299

## RESULT 13

US-09-248-796A-19040  
; Sequence 19040, Application US/09248796A  
; Patent No. 6747137  
; GENERAL INFORMATION:  
; APPLICANT: Keith Weinstein et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN  
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.132  
; CURRENT APPLICATION NUMBER: US/09/248,796A  
; CURRENT FILING DATE: 1999-02-12  
; PRIOR APPLICATION NUMBER: US 60/074,725  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: US 60/096,409  
; PRIOR FILING DATE: 1998-08-13  
; NUMBER OF SEQ ID NOS: 28208  
; SEQ ID NO 19040  
; LENGTH: 724  
; TYPE: PRT  
; ORGANISM: Candida albicans  
US-09-248-796A-19040

Query Match 76.1%; Score 35; DB 2; Length 724;  
Best Local Similarity 85.7%; Pred. No. 1,7e+02;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 ODIBITC 8

DB 488 EDIBITC 494  
:|||||

## RESULT 14

US-09-519-232-74  
; Sequence 74, Application US/09519232  
; Patent No. 6528702  
; GENERAL INFORMATION:  
; APPLICANT: Salmeron, John  
; APPLICANT: Weislo, Laura  
; APPLICANT: Willets, Michael  
; APPLICANT: Mengiste, Tesfaye  
; TITLE OF INVENTION: NOVEL PLANT GENES AND USES THEREOF  
; FILE REFERENCE: S-30857A/RIP2095  
; CURRENT APPLICATION NUMBER: US/09/519,232  
; CURRENT FILING DATE: 2000-03-06  
; NUMBER OF SEQ ID NOS: 74  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 74  
; LENGTH: 369  
; TYPE: PRT  
; ORGANISM: Nicotiana tabacum  
US-09-519-232-74

Query Match 73.9%; Score 34; DB 2; Length 369;  
Best Local Similarity 71.4%; Pred. No. 1.3e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 DIBITCV 9  
|||||  
DB 227 DIBITCV 233

## RESULT 15

US-08-809-999D-17  
; Sequence 17, Application US/08809999D  
; Patent No. 6013765  
; GENERAL INFORMATION:  
; APPLICANT: Coullie, Pierre; Ikeda, Hideyuki;  
; APPLICANT: Boon-Falleur, Thierry  
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules  
; TITLE OF INVENTION: Coding For Tumor Rejection Antigen Precursors DAGE and  
; TITLE OF INVENTION: Uses Thereof  
; NUMBER OF SEQUENCES: 18  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSEE: Fulbright & Jaworski, L.L.P.  
; STREET: 666 Fifth Avenue  
; CITY: New York City  
; STATE: New York  
; COUNTRY: USA  
; ZIP: 10103  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb storage  
; COMPUTER: IBM PS/2  
; OPERATING SYSTEM: PC-DOS  
; SOFTWARE: Wordperfect  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/809,999D  
; FILING DATE: 9-April-1997  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/316,211  
; FILING DATE: 30-September-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Hanson, No. 6013765man D.  
; REGISTRATION NUMBER: 30,946  
; REFERENCE/DOCKET NUMBER: LUD 5386.1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 318-3000  
; TELEFAX: (212) 752-5958  
; INFORMATION FOR SEQ ID NO: 17:  
; SEQUENCE CHARACTERISTICS:

LENGTH: 509 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
NAME/KEY: DAGR amino acid sequence  
NAME/KEY: corresponding to SEQ ID NO:2  
US-08-809-999D-17

Query Match 73.9%; Score 34; DB 2; Length 509;  
Best Local Similarity 50.0%; Pred. No. 1.8e+02;  
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 LODIETC 8  
:::|:|:  
DB 235 IEDLEVTC 242

RESULT 16  
US-09-069-637-17  
Sequence 17, Application US/09069637  
Patent No. 6022692  
GENERAL INFORMATION:  
APPLICANT: Coulle, Pierre; Ikeda, Hideyuki;  
APPLICANT: Boon-Falleur, Thierry  
TITLE OF INVENTION: Isolated Nucleic Acid Molecules  
TITLE OF INVENTION: Coding For Tumor Rejection Antigen Precursors DAGR and Uses Th  
NUMBER OF SEQUENCES: 18  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Felte & Lynch  
STREET: 805 Third Avenue  
CITY: New York City  
STATE: New York  
COUNTRY: USA  
ZIP: 10022  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb storage  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: PC-DOS  
SOFTWARE: Wordperfect  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/069,637  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/809,999  
FILING DATE: 9-April-1997  
APPLICATION NUMBER: 08/316,231  
FILING DATE: 30-September-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Hanson, No. 6022692man D.  
REGISTRATION NUMBER: 30,946  
REFERENCE/DOCKET NUMBER: LUD 5386.1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 688-9200  
TELEFAX: (212) 838-3884  
INFORMATION FOR SEQ ID NO: 17:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 509 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
NAME/KEY: DAGR amino acid sequence  
NAME/KEY: corresponding to SEQ ID NO:2  
US-09-069-637-17

Query Match 73.9%; Score 34; DB 2; Length 509;  
Best Local Similarity 50.0%; Pred. No. 1.8e+02;  
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;  
QY 1 LODIETC 8  
:::|:|:

DB 235 IEDLEVTC 242

RESULT 17  
US-09-322-360-17  
Sequence 17, Application US/09322360  
Patent No. 6297050  
GENERAL INFORMATION:  
APPLICANT: Coulle, Pierre; Ikeda, Hideyuki;  
APPLICANT: Boon-Falleur, Thierry  
TITLE OF INVENTION: Isolated Nucleic Acid Molecules  
TITLE OF INVENTION: Coding For Tumor Rejection Antigen Precursors DAGR and  
NUMBER OF SEQUENCES: 18  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Fulbright & Jaworski, L.L.P.  
STREET: 666 Fifth Avenue  
CITY: New York City  
STATE: New York  
COUNTRY: USA  
ZIP: 10103  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb storage  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: PC-DOS  
SOFTWARE: Wordperfect  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/322,360  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/809,999  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Hanson, No. 6297050man D.  
REGISTRATION NUMBER: 30,946  
REFERENCE/DOCKET NUMBER: LUD 5386.1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 318-3000  
TELEFAX: (212) 752-5958  
INFORMATION FOR SEQ ID NO: 17:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 509 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
NAME/KEY: DAGR amino acid sequence  
NAME/KEY: corresponding to SEQ ID NO:2  
US-09-322-360-17

Query Match 73.9%; Score 34; DB 2; Length 509;  
Best Local Similarity 50.0%; Pred. No. 1.8e+02;  
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 LODIETC 8  
:::|:|:  
DB 235 IEDLEVTC 242

RESULT 18  
US-09-131-831B-17  
GENERAL INFORMATION:  
APPLICANT: Coulle, Pierre; Ikeda, Hideyuki; Boon-Falleur, Thierry  
TITLE OF INVENTION: Isolated Nucleic Acid Molecules  
TITLE OF INVENTION: Coding For Tumor Rejection Antigen Precursors DAGR and  
NUMBER OF SEQUENCES: 18  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Fulbright & Jaworski L.L.P.  
STREET: 666 Fifth Avenue  
CITY: New York City

```
STATE: New York
COUNTRY: USA
ZIP: 10103
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb storage
COMPUTER: IBM PS/2
OPERATING SYSTEM: PC-DOS
SOFTWARE: WordPerfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/131,831B
FILING DATE: 11-Aug-1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/809,999
FILING DATE: 9-April-1997
APPLICATION NUMBER: 08/316,231
FILING DATE: 30-September-1994
ATTORNEY/AGENT INFORMATION:
NAME: Hanson, No. 6339149man D.
REGISTRATION NUMBER: 30,946
REFERENCE/DOCKET NUMBER: LUD 5386.3
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 318-3100
TELEFAX: (212) 318-3400
SEQUENCE DESCRIPTION: SEQ ID NO: 17;
US-09-131-831B-17
```

```
Query Match      73.9%; Score 34; DB 2; Length 509;
Best Local Similarity 50.0%; Pred. No. 1.8e+02;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 LDDIETC 8
       :||:|
Db      235 LEDLEVTC 242
```

```
RESULT 19
US-09-949-016-11233
; Sequence 11233, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11233
; LENGTH: 528
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-11233
```

```
Query Match      73.9%; Score 34; DB 2; Length 528;
Best Local Similarity 50.0%; Pred. No. 1.9e+02;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 LDDIETC 8
       :||:|
Db      254 LEDLEVTC 261
```

```
RESULT 20
US-08-323-170B-2
; Sequence 2, Application US/08323170B
```

```
; Patent No. 5733772
; GENERAL INFORMATION:
; APPLICANT: Williamson, Kim C.
; APPLICANT: Kaelow, David C.
; TITLE OF INVENTION: Cloning and Expression of Plasmodium
; TITLE OF INVENTION: falciparum Transmembrane Blocking Target Antigen, Pf2320
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, 8th Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/323,170B
; FILING DATE: 13-OCT-1994
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/010,409
; FILING DATE: 29-JAN-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Quine, Jonathan A.
; REGISTRATION NUMBER: P-41,261
; REFERENCE/DOCKET NUMBER: 015280-113100US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3135 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULAR TYPE: protein
US-08-323-170B-2
```

```
Query Match      73.9%; Score 34; DB 1; Length 3135;
Best Local Similarity 62.5%; Pred. No. 1.3e+03;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 LDDIETC 8
       :||:|
Db      1242 LEDVEISC 1249
```

```
RESULT 21
US-08-954-441-2
; Sequence 2, Application US/0895441
; Patent No. 6316000
; GENERAL INFORMATION:
; APPLICANT: Williamson, Kim C.
; APPLICANT: Kaelow, David C.
; TITLE OF INVENTION: Cloning and Expression of Plasmodium
; TITLE OF INVENTION: falciparum Transmembrane Blocking Target Antigen, Pf2320
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
```



```

; APPLICATION NUMBER: US/08/954,441
; FILING DATE: 20-OCT-1997
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/323,170
; FILING DATE: 13-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/010,409
; FILING DATE: 29-JAN-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Einhorn, Gregory P.
; REGISTRATION NUMBER: 38,440
; REFERENCE/DOCKET NUMBER: 015280-113110US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3135 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-954-441-2

Query Match      73.9%; Score 34; DB 2; Length 3135;
Best Local Similarity 62.5%; Pred. No. 1.3e+03;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy      1 LODIEITC 8
Db      1242 LEVEISC 1249

RESULT 22
US-09-720-655B-1
; Sequence 1, Application US/09720655B
; Patent No. 6723521
; GENERAL INFORMATION:
; APPLICANT: YOSHIMOTO, MAKOTO
; APPLICANT: YAZAKI, MADOKA
; APPLICANT: MATSUMOTO, KAYO
; APPLICANT: TAKAYAMA, KIYOSHI
; APPLICANT: TSURITANI, KATSUKI
; TITLE OF INVENTION: SUGAR TRANSPORTER
; FILE REFERENCE: ASA-CO34
; CURRENT APPLICATION NUMBER: US/09/720,655B
; CURRENT FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: JP 10/187235
; PRIOR FILING DATE: 1998-07-02
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 519
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-720-655B-1

Query Match      71.7%; Score 33; DB 2; Length 519;
Best Local Similarity 75.0%; Pred. No. 2.9e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy      1 LODIEITC 8
Db      278 LODLENTC 285

RESULT 23
US-08-964-127-2
; Sequence 2, Application US/08964127
; Patent No. 6277565
; GENERAL INFORMATION:
; APPLICANT: Grandearl, Andrew David John
; APPLICANT: NOVEL GENES ENCODING TRANSPORTER-LIKE
; TITLE OF INVENTION: NOVEL GENES ENCODING TRANSPORTER-LIKE
```

```

; TITLE OF INVENTION: MOLECULES
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: PastsEQ for Windows Version 2.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/964,127
; FILING DATE: 06-NOV-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:

Query Match      71.7%; Score 33; DB 2; Length 520;
Best Local Similarity 75.0%; Pred. No. 2.9e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy      1 LODIEITC 8
Db      278 LODLENTC 285

RESULT 24
US-09-496-692-2
; Sequence 2, Application US/09496692
; Patent No. 6313271
; GENERAL INFORMATION:
; APPLICANT: Grandearl, Andrew David John
; APPLICANT: NOVEL GENES ENCODING TRANSPORTER-LIKE
; TITLE OF INVENTION: MOLECULES
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: PastsEQ for Windows Version 2.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/496,692
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/964,127
; FILING DATE: 06-NOV-1997
```

ATTORNEY/AGENT INFORMATION:  
NAME: Crews, Ph.D., L. Lee  
REGISTRATION NUMBER: P-43,567  
REFERENCE/DOCKET NUMBER: 07334/038001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617/542-6707  
TELEFAX: 617/542-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 520 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FRAGMENT TYPE: internal  
US-09-496-692-2

Query Match	71.7%	Score 33;	DB 2;	Length 520;
Best Local Similarity	75.0%	Pred. No. 2.9e+02;		
Matches 6;	Conservative	1;	Mismatches	0; Gaps 0;

```

QY      1 LQDIEITC 8
         |||:||||
Db      278 LQDLIENTC 285

```

RESULT 25  
US-10-000-273-2  
; Sequence 2, Application US/10000273  
; Patent No. 6573057  
; GENERAL INFORMATION:

```

?
?
?
APPLICANT: Grendaarl, Andrew David John
TITLE OF INVENTION: NOVEL GENES ENCODING TRANSPORTER-LIKE
?                MOLECULES
?
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
?
```

ZIP: 02110-2804  
COMPUTER READABLE FORM:

```

; SOFTWARE: FastSeq for Windows Version 2.0b
; CURRENT APPLICATION DATA:

```

APPLICATION NUMBER: US/08/964,127  
FILING DATE: 06-NOV-1997

REFERENCE/DOCKET NUMBER: 07334/03800J  
TELECOMMUNICATION INFORMATION:

```

; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:

```

SEQUENCE DESCRIPTION:	SEQ ID NO: 2:
US-10-000-273-2	

Query Match	71.7%;	Score 33;	DB 2;	Length 520
Best Local Similarity	75.0%;	Pred. No.	2.9e+02;	

Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```
Qy      1 LQDIEITC 8
Db      278 LQDLLENTC 285
```

```

RESULT 26
US-09-949-016-10846
; Sequence 10846, Application US/03949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,438
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10846
; LENGTH: 839
; TYPE: PRT
; ORGANISM: Human
; US-09-949-016-10846

```

Query Match	71.7%;	Score 33;	DB 2;	Length 839;
Best Local Similarity	75.0%;	Pred. No. 4.8e+02;		
Matches	6;	Conservative	1;	Mismatches 0;
			Indels	Gaps

```
QY      1 LQDIETC 8
        |||||:
Db      206 LQDRELT 213
```

```

RESULT 27
US-09-270-767-61394
/ Sequence 61394, Application US/09270767
/ Patent No. 6703491
/ GENERAL INFORMATION:
/ APPLICANT: Homburger et al.
/ TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
/ FILE REFERENCE: File Reference: 7326-094
/ CURRENT APPLICATION NUMBER: US/09/270.767
/ CURRENT FILING DATE: 1999-03-17
/ NUMBER OF SEQ ID NOS: 62517
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 61394
/ LENGTH: 53
/
/ TYPE: PRT
/
/ ORGANISM: Drosophila melanogaster
/ US-09-270-767-61394

```

Query Match	69.6%	Score 32;	DB 2;	Length 53;
Best Local Similarity	75.0%	Pred. No. 39;		
Matches	6;	Conservative 1;	Mismatches 1;	Indels 0;
			Gaps 0;	

QY	1	LQDIEITC	8
		:	
Db	7	LRDIEITC	14

RESULT 28  
US-09-270-767-45862  
; Sequence 45862, Application US/0927076  
; Patent No. 6703491  
; GENERAL INFORMATION:

APPLICANT: Homburger et al.  
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
FILE REFERENCE: File Reference: 7326-094  
CURRENT APPLICATION NUMBER: US/09/270,767  
CURRENT FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 62517  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 45862  
LENGTH: 303  
TYPE: PRT  
ORGANISM: Drosophila melanogaster  
US-09-270-767-45862

Query Match 69.6%; Score 32; DB 2; Length 303;  
Best Local Similarity 75.0%; Pred. No. 2.5e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LODIETC 8  
Db 257 LRDIEILC 264

RESULT 29  
US-09-270-767-46012  
Sequence 46012, Application US/09270767  
Patent No. 6703491  
GENERAL INFORMATION:  
APPLICANT: Homburger et al.  
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
FILE REFERENCE: File Reference: 7326-094  
CURRENT APPLICATION NUMBER: US/09/270,767  
CURRENT FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 62517  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 46012  
LENGTH: 402  
TYPE: PRT  
ORGANISM: Drosophila melanogaster  
US-09-270-767-46012

Query Match 69.6%; Score 32; DB 2; Length 402;  
Best Local Similarity 75.0%; Pred. No. 3.4e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LODIETC 8  
Db 132 LODIDIC 139

RESULT 30  
US-09-134-001C-4766  
Sequence 4766, Application US/09134001C  
Patent No. 6380370  
GENERAL INFORMATION:  
APPLICANT: Lynn Doucet-Stamm et al  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS  
TITLE OF INVENTION: EPIDERMIS FOR DIAGNOSTICS AND THERAPEUTICS  
FILE REFERENCE: CTC-007  
CURRENT APPLICATION NUMBER: US/09/134,001C  
CURRENT FILING DATE: 1998-08-13  
PRIOR APPLICATION NUMBER: US 60/064,964  
PRIOR FILING DATE: 1997-11-08  
PRIOR APPLICATION NUMBER: US 60/055,779  
PRIOR FILING DATE: 1997-08-14  
NUMBER OF SEQ ID NOS: 5674  
SEQ ID NO 4766  
LENGTH: 205  
TYPE: PRT  
ORGANISM: Staphylococcus epidermidis  
US-09-134-001C-4766

Query Match 67.4%; Score 31; DB 2; Length 205;  
Best Local Similarity 62.5%; Pred. No. 2.5e+02;

Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LODIETC 8  
Db 192 LRDIEILC 199

RESULT 31  
US-09-638-937-2  
Sequence 2, Application US/09638937  
Patent No. 6593514  
GENERAL INFORMATION:  
APPLICANT: Cahoon, Edgar B  
APPLICANT: Hitz, William D  
APPLICANT: Ripp, Kevin G  
TITLE OF INVENTION: METHOD FOR THE PRODUCTION OF CALENDIC ACID, AN UNUSUAL  
TITLE OF INVENTION: FATTY ACID CONTAINING DELTA-8,10,12 CONJUGATED DOUBLE  
TITLE OF INVENTION: BONDS  
FILE REFERENCE:  
CURRENT APPLICATION NUMBER: US/09/638,937  
CURRENT FILING DATE: 2000-08-15  
PRIOR APPLICATION NUMBER: BB-1371-P1  
PRIOR FILING DATE: 1999-08-16  
NUMBER OF SEQ ID NOS: 25  
SOFTWARE: Microsoft Office 97  
SEQ ID NO 2  
LENGTH: 374  
TYPE: PRT  
ORGANISM: Calendula officinalis  
US-09-638-937-2

Query Match 67.4%; Score 31; DB 2; Length 374;  
Best Local Similarity 55.6%; Pred. No. 4.8e+02;  
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 LODIETC 9  
Db 47 LHDIVTCT 55

RESULT 32  
US-09-248-796A-14387  
Sequence 14387, Application US/09248796A  
Patent No. 6747137  
GENERAL INFORMATION:  
APPLICANT: Keith Weinstock et al  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICA  
TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS  
FILE REFERENCE: 107196.132  
CURRENT APPLICATION NUMBER: US/09/248,796A  
CURRENT FILING DATE: 1999-02-12  
PRIOR APPLICATION NUMBER: US 60/074,725  
PRIOR FILING DATE: 1998-02-13  
PRIOR APPLICATION NUMBER: US 60/096,409  
PRIOR FILING DATE: 1998-08-13  
NUMBER OF SEQ ID NOS: 28208  
SEQ ID NO 14387  
LENGTH: 826  
TYPE: PRT  
ORGANISM: Candida albicans  
US-09-248-796A-14387

Query Match 67.4%; Score 31; DB 2; Length 826;  
Best Local Similarity 62.5%; Pred. No. 1.1e+03;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LODIETC 8  
Db 659 LODIETVC 666

RESULT 33  
US-09-585-858-19

```
; Sequence 19, Application US/09585858
; Patent No. 6492161
; GENERAL INFORMATION:
; APPLICANT: Sigríður Hjörleifsdóttir
; APPLICANT: Gudmundur O. Hrengvasson
; APPLICANT: Olafur H. Friðjónsson
; APPLICANT: Arnthor Aevasson
; APPLICANT: Jakob K. Kristjánsson
; TITLE OF INVENTION: Bacteriophage RM378 of a Thermophilic
; FILE REFERENCE: 2739.1001-001
; CURRENT APPLICATION NUMBER: US/09/585,858
; PRIOR FILING DATE: 2000-12-18
; PRIOR APPLICATION NUMBER: 60/137,120
; NUMBER OF SEQ ID NOS: 73
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 19
; LENGTH: 852
; TYPE: PRT
; ORGANISM: Varicella-zoster virus (strain Dumas)
US-09-585-858-19

Query Match      67.4%; Score 31; DB 2; Length 852;
Best Local Similarity 55.6%; Pred. No. 1.2e+03;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      1 QDIETCV 9
Db      51 LSDVEIDCM 59

RESULT 34
US-10-270-878-19
; Sequence 19, Application US/10270878
; Patent No. 6818425
; GENERAL INFORMATION:
; APPLICANT: Sigríður Hjörleifsdóttir
; APPLICANT: Gudmundur O. Hrengvasson
; APPLICANT: Olafur H. Friðjónsson
; APPLICANT: Arnthor Aevasson
; APPLICANT: Jakob K. Kristjánsson
; TITLE OF INVENTION: Bacteriophage RM378 of a Thermophilic
; FILE REFERENCE: 2739.1001-001
; CURRENT APPLICATION NUMBER: US/10/270,878
; PRIOR FILING DATE: 2002-10-11
; PRIOR APPLICATION NUMBER: US/09/585,858
; PRIOR FILING DATE: 2000-12-18
; NUMBER OF SEQ ID NOS: 73
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 19
; LENGTH: 852
; TYPE: PRT
; ORGANISM: Varicella-zoster virus (strain Dumas)
US-10-270-878-19

Query Match      67.4%; Score 31; DB 2; Length 852;
Best Local Similarity 55.6%; Pred. No. 1.2e+03;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      1 QDIETCV 9
Db      51 LSDVEIDCM 59

RESULT 35
US-09-949-002-289
; Sequence 289, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
```

```
; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; CURRENT FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 289
; LENGTH: 934
; TYPE: PRT
; ORGANISM: Human
US-09-949-002-289

Query Match      67.4%; Score 31; DB 2; Length 934;
Best Local Similarity 50.0%; Pred. No. 1.3e+03;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      2 QDIETCV 9
Db      666 EDVEISCL 673

RESULT 36
US-09-949-002-513
; Sequence 513, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; CURRENT FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 513
; LENGTH: 981
; TYPE: PRT
; ORGANISM: Human
US-09-949-002-513

Query Match      67.4%; Score 31; DB 2; Length 981;
Best Local Similarity 50.0%; Pred. No. 1.3e+03;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      2 QDIETCV 9
Db      713 EDVEISCL 720

RESULT 37
US-09-501-136-2
; Sequence 2, Application US/09501136
; Patent No. 6727084
; GENERAL INFORMATION:
; APPLICANT: Université de Liège
; TITLE OF INVENTION: Cold-active beta galactosidase, the process for its
; FILE REFERENCE: Beta-gal
; CURRENT APPLICATION NUMBER: US/09/501,136
; CURRENT FILING DATE: 2000-02-09
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 1039
; TYPE: PRT
; ORGANISM: Pseudomonas haloplanktis
; FEATURE:
```

NAME/KEY: ACT SITE  
LOCATION: (460)  
NAME/KEY: ACT SITE  
LOCATION: (501)  
NAME/KEY: ACT SITE  
LOCATION: (502)  
NAME/KEY: ACT SITE  
LOCATION: (536)  
NAME/KEY: SIMILAR  
LOCATION: (533)..  
NAME/KEY: SIMILAR  
LOCATION: (455)..  
US-09-501-136-2

Query Match 67.4%; Score 31; DB 2; Length 1039;  
Best Local Similarity 71.4%; Pred. No. 1.4e+03;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 3 DIBITCV 9  
Db 845 DIBITCV 851

RESULT 38  
US-08-680-326-35  
Sequence 35, Application US/08680326  
Patent No. 5925733  
GENERAL INFORMATION:  
APPLICANT: ROSE, TIMOTHY M.  
APPLICANT: BOSCH, MARINX  
APPLICANT: STRAND, KURT  
APPLICANT: TODARO, GEORGE J.  
TITLE OF INVENTION: DNA POLYMERASE OF GAMMA HERPES VIRUSES  
TITLE OF INVENTION: ASSOCIATED WITH KAPOSI'S SARCOMA AND RETROPERITONEAL  
TITLE OF INVENTION: FIBROMATOSIS  
NUMBER OF SEQUENCES: 152  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MORRISON & FOERSTER  
STREET: 755 Page Mill Road  
CITY: Palo Alto  
STATE: California  
COUNTRY: USA  
ZIP: 94304-1018  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/680,326  
FILING DATE:  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Schiff, J. Michael  
REGISTRATION NUMBER: 40,253  
REFERENCE/DOCKET NUMBER: 29938-20001.00  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 813-5600  
TELEFAX: (415) 494-0792  
TELEX: 706141  
INFORMATION FOR SEQ ID NO: 35:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1194 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-680-326-35

Query Match 67.4%; Score 31; DB 1; Length 1194;  
Best Local Similarity 55.6%; Pred. No. 1.7e+03;  
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;  
Qy 1 LODIBITCV 9

Db 319 LSDVEIDCM 327

RESULT 39  
US-09-424-783-5  
Sequence 5, Application US/09424783  
Patent No. 6780608  
GENERAL INFORMATION:  
APPLICANT: Hakamata, Yasuhiro  
APPLICANT: Nishimura, Seichiro  
APPLICANT: Barsoumian, Edward Leon  
TITLE OF INVENTION: Human Type 3 Ryanodine Receptor Protein  
TITLE OF INVENTION: and DNA Molecules Coding Therefor  
FILE REFERENCE: 0652.200000  
CURRENT APPLICATION NUMBER: US/09/424,783  
CURRENT FILING DATE: 1999-12-01  
PRIOR APPLICATION NUMBER: PCT/EP98/02926  
PRIOR FILING DATE: 1998-05-18  
PRIOR APPLICATION NUMBER: DE 197 22 317.6  
PRIOR FILING DATE: 1997-05-28  
NUMBER OF SEQ ID NOS: 11  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 5  
LENGTH: 4968  
TYPE: PRT  
ORGANISM: Oryctolagus cuniculus  
US-09-424-783-5

Query Match 67.4%; Score 31; DB 2; Length 4968;  
Best Local Similarity 75.0%; Pred. No. 7.5e+03;  
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 LODIBITC 8  
Db 3830 LODDEFTC 3837

RESULT 40  
US-09-051-529-1  
Sequence 1, Application US/09051529A  
Patent No. 6232089  
GENERAL INFORMATION:  
APPLICANT: BUCKLE, Derek Richard  
APPLICANT: CHRISTIE, Gary  
APPLICANT: MAROLEWSKI, Ariane Elizabeth  
APPLICANT: MAYER, Ruth Judik  
APPLICANT: SMITH, David Glynn  
TITLE OF INVENTION: CD23 Processing Enzyme Preparation  
FILE REFERENCE: P50386-2  
CURRENT APPLICATION NUMBER: US/09/051,529A  
CURRENT FILING DATE: 1998-08-21  
EARLIER APPLICATION NUMBER: 60/013,427  
EARLIER FILING DATE: 1996-03-14  
EARLIER APPLICATION NUMBER: 60/005,316  
NUMBER OF SEQ ID NOS: 1  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 1  
LENGTH: 10  
TYPE: PRT  
ORGANISM: Human  
US-09-051-529-1

Query Match 65.2%; Score 30; DB 2; Length 10;  
Best Local Similarity 57.1%; Pred. No. 16;  
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 2 ODIBITC 8  
Db 4 QDLRLSC 10

RESULT 41  
US-09-621-976-6262  
; Sequence 6262, Application US/09621976  
; Patent No. 6639063  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.  
; APPLICANT: Jobert, S.  
; APPLICANT: Giordano, J.Y.  
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.  
; FILE REFERENCE: GENSET.054PR2  
; CURRENT APPLICATION NUMBER: US/09/621,976  
; CURRENT FILING DATE: 2000-07-21  
; NUMBER OF SEQ ID NOS: 19335  
; SOFTWARE: Patent.pm  
; SEQ ID NO 6262  
; LENGTH: 55  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-621-976-6262

Query Match 65.2%; Score 30; DB 2; Length 55;  
Best Local Similarity 62.5%; Pred. No. 97;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 QDIETCV 9  
: : |||||  
Db 13 ETEITCV 20

RESULT 42  
US-09-621-976-6737  
; Sequence 6737, Application US/09621976  
; Patent No. 6639063  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.  
; APPLICANT: Jobert, S.  
; APPLICANT: Giordano, J.Y.  
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.  
; FILE REFERENCE: GENSET.054PR2  
; CURRENT APPLICATION NUMBER: US/09/621,976  
; CURRENT FILING DATE: 2000-07-21  
; NUMBER OF SEQ ID NOS: 19335  
; SOFTWARE: Patent.pm  
; SEQ ID NO 6737  
; LENGTH: 72  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: UNSURE  
; LOCATION: 70  
; OTHER INFORMATION: Xaa = \*, Cys, Trp  
; NAME/KEY: UNSURE  
; LOCATION: 71  
; OTHER INFORMATION: Xaa = Ala, Asp, Glu  
; NAME/KEY: UNSURE  
; LOCATION: 55  
; OTHER INFORMATION: Xaa = Ala, Asp, Glu, Gly, His, Ile, Lys, Leu, Met, Asn, Pro, Gln, Arg, Ser, Thr  
; NAME/KEY: UNSURE  
; LOCATION: 42  
; OTHER INFORMATION: Xaa = Gly, Arg  
; NAME/KEY: UNSURE  
; LOCATION: 42  
; OTHER INFORMATION: Xaa = Gly, Trp  
US-09-621-976-6737

Query Match 65.2%; Score 30; DB 2; Length 72;  
Best Local Similarity 37.5%; Pred. No. 1.3e+02;  
Matches 3; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 2 QDIETCV 9  
: : |||||  
Db 17 QDVYDVC 24

RESULT 43  
US-09-489-039A-8230  
; Sequence 8230, Application US/09489039A  
; Patent No. 6610836  
; GENERAL INFORMATION:  
; APPLICANT: Gary Breton et. al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA  
; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 2709.2004001  
; CURRENT APPLICATION NUMBER: US/09/489,039A  
; CURRENT FILING DATE: 2000-01-27  
; PRIOR APPLICATION NUMBER: US 60/117,747  
; PRIOR FILING DATE: 1999-01-29  
; NUMBER OF SEQ ID NOS: 14342  
; SEQ ID NO 8230  
; LENGTH: 126  
; TYPE: PRT  
; ORGANISM: Klebsiella pneumoniae  
US-09-489-039A-8230

Query Match 65.2%; Score 30; DB 2; Length 126;  
Best Local Similarity 62.5%; Pred. No. 2.3e+02;  
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 LODIETC 8  
: : |||||  
Db 77 LSDIEVDC 84

RESULT 44  
US-09-949-016-6831  
; Sequence 6831, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 6831  
; LENGTH: 281  
; TYPE: PRT  
; ORGANISM: Human  
US-09-949-016-6831

Query Match 65.2%; Score 30; DB 2; Length 281;  
Best Local Similarity 62.5%; Pred. No. 5.5e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LODIETC 8  
: : |||||  
Db 230 LRDIETC 237

RESULT 45  
US-09-949-016-7870  
; Sequence 7870, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307

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;
;   TYPE: PRT
;   ORGANISM: Human
;   US-09-949-016-6949
Query Match      65.2%; Score 30; DB 2; Length 324;
Best Local Similarity 62.5%; Pred. No. 6.4e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 LDIEITC 8
Db      273 LRDIELIC 280

RESULT 46
US-09-328-352-7018
; Sequence 7018, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Bretton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328.352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 7018
; LENGTH: 363
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
; US-09-328-352-7018
Query Match      65.2%; Score 30; DB 2; Length 363;
Best Local Similarity 66.7%; Pred. No. 7.2e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 LDIEITC 9
Db      192 LQDKQIECV 200

RESULT 47
US-09-949-016-6949
; Sequence 6949, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949.016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6949
; LENGTH: 455
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;   TYPE: PRT
;   ORGANISM: Human
;   US-09-949-016-6949
Query Match      65.2%; Score 30; DB 2; Length 455;
Best Local Similarity 57.1%; Pred. No. 9.2e+02;
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      2 QDIEITC 8
Db      261 EDIQLTC 267

RESULT 48
US-09-949-016-11026
; Sequence 11026, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949.016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11026
; LENGTH: 455
; TYPE: PRT
; ORGANISM: Human
; US-09-949-016-11026
Query Match      65.2%; Score 30; DB 2; Length 455;
Best Local Similarity 57.1%; Pred. No. 9.2e+02;
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      2 QDIEITC 8
Db      261 EDIQLTC 267
```

```

RESULT 49
US-08-749-903-4
; Sequence 4, Application US/08749903
; Patent No. 5759812
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; TITLE OF INVENTION: NOVEL HUMAN SILENTIN-BINDING PROTEIN
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: US
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/749.903
; FILING DATE: Filed Herewith
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
```

FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J.  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0163 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-855-0555  
TELEFAX: 415-845-4166  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 472 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
IMMEDIATE SOURCE:  
LIBRARY: Genbank  
CLONE: 227630  
US-08-749-903-4

Query Match 65.2%; Score 30; DB 1; Length 472;  
Best Local Similarity 62.5%; Pred. No. 9.5e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LQDIETC 8  
|:|:|  
Db 364 LEDQELTC 371

RESULT 50  
US-08-749-903-5  
Sequence 5, Application US/08749903  
Patent No. 5759812  
GENERAL INFORMATION:  
APPLICANT: Bandman, Olga  
TITLE OF INVENTION: NOVEL HUMAN SILENTIN-BINDING PROTEIN  
NUMBER OF SEQUENCES: 5  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: US  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/749,903  
FILING DATE: Filed Herewith  
PRIOR APPLICATION NUMBER:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J.  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0163 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-855-0555  
TELEFAX: 415-845-4166  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 472 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
IMMEDIATE SOURCE:  
LIBRARY: Genbank  
CLONE: 298710

US-08-749-903-5

Query Match 65.2%; Score 30; DB 1; Length 472;  
Best Local Similarity 62.5%; Pred. No. 9.5e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LQDIETC 8  
|:|:|  
Db 364 LEDQELTC 371

Search completed: May 5, 2006, 02:25:15  
Job time : 26.8 secs



GenCore version 5.1.7  
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OM protein - protein search, using sw model

Run on: May 5, 2006, 07:44:45 ; Search time 55.9 Seconds  
(without alignments)  
67.271 Million cell updates/sec

Title: US-08-170-344-23  
Perfect score: 46  
Sequence: 1 LQDIETCV 9

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database :  
1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep:\*  
2: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep:\*  
3: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep:\*  
4: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep:\*  
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6: /cgn2\_6/ptodata/1/pubpaa/US11\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	46	100.0	9	5	US-10-751-845-131 Sequence 131, App
2	46	100.0	10	5	US-10-751-845-130 Sequence 130, App
3	46	100.0	42	5	US-10-751-845-152 Sequence 152, App
4	46	100.0	119	5	US-10-751-845-159 Sequence 159, App
5	46	100.0	158	5	US-10-800-023-27 Sequence 27, App1
6	46	100.0	158	6	US-11-021-949-28 Sequence 28, App1
7	46	100.0	172	4	US-10-472-724-6 Sequence 6, App1
8	46	100.0	236	5	US-10-751-845-157 Sequence 157, App
9	46	100.0	237	5	US-10-751-845-158 Sequence 158, App
10	46	100.0	261	5	US-10-751-845-160 Sequence 160, App
11	46	100.0	278	4	US-10-000-903-21 Sequence 21, App1
12	46	100.0	278	5	US-10-899-771-21 Sequence 21, App1
13	46	100.0	383	4	US-10-000-903-23 Sequence 23, App1
14	46	100.0	383	4	US-10-899-771-23 Sequence 23, App1
15	42	91.3	9	5	US-10-751-845-129 Sequence 129, App
16	40	87.0	99	4	US-10-389-647-605 Sequence 605, App
17	40	87.0	481	6	US-11-097-143-17043 Sequence 61, App1
18	37	80.4	873	2	US-08-911-824-61 Sequence 61, App1
19	36	78.3	162	4	US-10-767-701-58324 Sequence 58324, A
20	36	78.3	274	4	US-10-369-493-169 Sequence 169, App
21	36	78.3	282	4	US-10-243-552-539 Sequence 539, App
22	36	78.3	454	4	US-10-437-963-184385 Sequence 184385, A
23	36	78.3	454	4	US-10-425-115-227314 Sequence 227314, A
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26	35	76.1	1070	6	US-10-032-585-7389 Sequence 7389, App
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35	34	73.9	179	4	US-10-425-115-246840 Sequence 246840, A
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113	32	69.6	277	4	US-10-424-599-196048	Sequence 196048,	186	31	67.4	931	4	US-10-436-715-61	Sequence 61, Appl
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116	32	69.6	291	6	US-11-097-143-25155	Sequence 25155, A	189	31	67.4	1144	4	US-10-437-963-174750	Sequence 174750,
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120	32	69.6	314	4	US-10-425-115-341980	Sequence 341980,	193	31	67.4	2055	4	US-10-276-774-1785	Sequence 1795, Ap
121	32	69.6	342	4	US-10-425-114-49062	Sequence 49062, A	194	31	67.4	4767	4	US-10-276-774-1902	Sequence 1902, Ap
122	32	69.6	352	4	US-10-425-114-65377	Sequence 65377, A	195	31	67.4	4967	4	US-10-668-767-60	Sequence 60, Appl
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126	32	69.6	382	6	US-11-097-143-42756	Sequence 42756, A	199	30	65.2	45	4	US-10-437-963-128314	Sequence 128314,
127	32	69.6	612	4	US-10-306-905-6	Sequence 6, Appl1	200	30	65.2	53	4	US-10-425-115-300018	Sequence 300018,
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153	31	67.4	332	4	US-10-437-963-113793	Sequence 113793,	226	30	65.2	250	4	US-10-282-122A-55314	Sequence 55314, A
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248	30	65.2	382	5	US-10-732-923-20209	Sequence 20209, A	321	29	63.0	120	4	US-10-424-599-212691	Sequence 212691,
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261	30	65.2	482	4	US-10-742-682-4	Sequence 4, Appl1	334	29	63.0	145	4	US-10-335-977-6991	Sequence 6991, Ap
262	30	65.2	484	4	US-10-724-972A-5425	Sequence 5425, Ap	335	29	63.0	158	6	US-11-021-949-361	Sequence 361, App
263	30	65.2	485	4	US-10-283-122A-48836	Sequence 48836, A	336	29	63.0	161	4	US-10-425-114-17247	Sequence 47247, A
264	30	65.2	511	4	US-10-439-741-8	Sequence 8, Appl1	337	29	63.0	163	4	US-10-335-977-6992	Sequence 6992, A
265	30	65.2	558	4	US-10-369-493-13154	Sequence 13154, A	338	29	63.0	173	4	US-10-424-599-277920	Sequence 277920,
266	30	65.2	603	4	US-10-424-599-265128	Sequence 265128,	339	29	63.0	181	4	US-10-425-115-219323	Sequence 219323,
267	30	65.2	614	6	US-11-097-143-38253	Sequence 38253, A	340	29	63.0	184	5	US-10-828-559-92	Sequence 92, Appl
268	30	65.2	625	4	US-10-425-114-51730	Sequence 51730, A	341	29	63.0	185	4	US-10-767-701-39070	Sequence 39070, A
269	30	65.2	673	5	US-10-450-753-39473	Sequence 39473, A	342	29	63.0	185	5	US-10-828-559-1	Sequence 1, Appl1
270	30	65.2	673	5	US-10-450-763-40596	Sequence 40596, A	343	29	63.0	185	5	US-10-828-559-36	Sequence 36, Appl
271	30	65.2	734	4	US-10-369-493-22821	Sequence 22821, A	344	29	63.0	186	4	US-10-437-963-190223	Sequence 190223,
272	30	65.2	734	4	US-10-369-493-22821	Sequence 22821, A	345	29	63.0	186	5	US-10-828-559-12	Sequence 12, Appl
273	30	65.2	757	4	US-10-437-963-141582	Sequence 141582,	346	29	63.0	186	5	US-10-106-658-8736	Sequence 6736, Ap
274	30	65.2	807	4	US-10-437-963-158819	Sequence 158819,	347	29	63.0	193	4	US-10-029-386-22203	Sequence 32203, A
275	30	65.2	826	4	US-10-015-115-108	Sequence 108, App	348	29	63.0	193	4	US-10-029-386-22355	Sequence 32355, A
276	30	65.2	826	6	US-11-097-143-20736	Sequence 20736, A	349	29	63.0	208	5	US-10-828-559-8	Sequence 8, Appl1
277	30	65.2	956	4	US-10-437-963-158820	Sequence 158820,	350	29	63.0	209	4	US-10-282-122A-61179	Sequence 61179, A
278	30	65.2	960	4	US-10-389-963-178460	Sequence 178460,	351	29	63.0	214	4	US-10-767-701-45781	Sequence 45781, A
279	30	65.2	1108	4	US-10-389-566-1377	Sequence 1377, Ap	352	29	63.0	214	4	US-10-425-115-119925	Sequence 219925,
280	30	65.2	1108	4	US-10-389-566-1650	Sequence 1650, Ap	353	29	63.0	214	4	US-10-425-115-219477	Sequence 219477,
281	30	65.2	1122	4	US-10-437-963-111105	Sequence 141105,	354	29	63.0	215	5	US-10-507-617-659	Sequence 659, Appl
282	30	65.2	1131	4	US-10-369-493-5860	Sequence 5860, Ap	355	29	63.0	219	4	US-10-425-115-344216	Sequence 344216, A
283	30	65.2	1137	5	US-10-732-923-15029	Sequence 15029, A	356	29	63.0	219	6	US-11-097-143-47719	Sequence 34719, A
284	30	65.2	1281	4	US-10-437-963-178676	Sequence 178676,	357	29	63.0	219	6	US-09-764-870-343	Sequence 343, App
285	30	65.2	1355	4	US-10-080-334-161	Sequence 161, App	358	29	63.0	220	3	US-10-125-540-343	Sequence 684, App
286	30	65.2	1581	4	US-10-080-334-159	Sequence 159, App	359	29	63.0	220	3	US-10-125-540-343	Sequence 343, App
287	30	65.2	1581	4	US-10-723-361-15754	Sequence 15754, A	360	29	63.0	220	4	US-10-103-313-461	Sequence 264, App
288	30	65.2	1596	4	US-10-080-334-42	Sequence 42, Appl	361	29	63.0	220	4	US-10-158-057-264	Sequence 158159,
289	30	65.2	1661	5	US-10-450-763-55074	Sequence 55074, A	362	29	63.0	220	4	US-10-437-963-158159	Sequence 21675,
290	30	65.2	1695	4	US-10-723-361-15753	Sequence 15753, A	363	29	63.0	220	4	US-10-425-115-219475	Sequence 219475,
291	30	65.2	2035	4	US-10-080-334-160	Sequence 160, App	364	29	63.0	221	4	US-10-425-115-219477	Sequence 219477,
292	30	65.2	2039	4	US-10-473-574-18	Sequence 18, Appl	365	29	63.0	221	4	US-10-282-122A-62956	Sequence 62956, A
293	30	65.2	2051	4	US-10-369-493-22222	Sequence 22222, A	366	29	63.0	224	4	US-10-041-018-216	Sequence 216, App
294	30	65.2	2051	4	US-10-741-191-18	Sequence 18, Appl	367	29	63.0	224	4	US-10-041-018-303	Sequence 303, App
295	30	65.2	2139	3	US-09-727-384-6	Sequence 6, Appl1	368	29	63.0	224	4	US-10-041-018-355	Sequence 355, App
296	30	65.2	2139	3	US-09-727-384-6	Sequence 6, Appl1	369	29	63.0	224	4	US-10-041-018-355	Sequence 43, Appl1
297	30	65.2	2139	3	US-10-023-219-4	Sequence 4, Appl1	370	29	63.0	224	4	US-10-828-559-9	Sequence 727, App
298	30	65.2	2139	5	US-10-690-276-4	Sequence 2436, Ap	371	29	63.0	224	5	US-10-828-559-37	Sequence 11741, A
299	30	65.2	2139	5	US-10-408-765A-2436	Sequence 2436, Ap	372	29	63.0	234	5	US-10-828-559-43	Sequence 14512, A
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302	30	65.2	4861	3	US-10-146-473-49	Sequence 49, Appl	375	29	63.0	237	4	US-10-369-493-14512	Sequence 14942, A
303	30	65.2	4861	5	US-10-287-436A-486	Sequence 486, App	376	29	63.0	237	4	US-10-369-493-14942	Sequence 258096,
304	30	65.2	4861	5	US-10-287-436A-1182	Sequence 1182, Ap	377	29	63.0	242	5	US-10-425-115-258096	Sequence 59, Appl1
305	30	65.2	4861	5	US-10-840-512-162	Sequence 162, App	378	29	63.0	242	5	US-10-828-559-19	Sequence 208, App
306	30	65.2	8523	5	US-10-325-694-75	Sequence 75, Appl	379	29	63.0	242	5	US-10-041-018-208	Sequence 234, App
307	29	63.0	13	4	US-10-325-694-75	Sequence 76, Appl	380	29	63.0	244	4	US-10-041-018-244	Sequence 349, App
308	29	63.0	13	4	US-10-325-694-77	Sequence 77, Appl	381	29	63.0	244	4	US-10-041-018-349	Sequence 72, Appl1
309	29	63.0	38	5	US-10-450-763-39338	Sequence 39338, A	382	29	63.0	250	6	US-11-097-143-9411	Sequence 9411, Ap
310	29	63.0	43	3	US-09-798-889-88	Sequence 88, Appl	383	29	63.0	250	6	US-10-425-114-285108	Sequence 285108, A
311	29	63.0	43	3	US-10-633-680-88	Sequence 36366, A	384	29	63.0	251	4	US-10-425-115-285217	Sequence 295213,
312	29	63.0	49	3	US-09-864-761-36566	Sequence 109923,	385	29	63.0	251	4	US-10-425-115-285217	Sequence 40375, A
313	29	63.0	66	4	US-10-437-963-109923	Sequence 51397, A	386	29	63.0	258	4	US-10-425-114-60375	Sequence 62495, A
314	29	63.0	67	4	US-10-767-701-51397	Sequence 3346, Ap	387	29	63.0	264	4	US-10-425-114-70519	Sequence 70519, A
315	29	63.0	80	4	US-10-264-049-3346	Sequence 209636,	388	29	63.0	264	4	US-10-425-114-70519	Sequence 2, Appl1
316	29	63.0	92	4	US-10-425-114-72377	Sequence 72377, A	389	29	63.0	264	4	US-10-425-114-70519	Sequence 2, Appl1
317	29	63.0	101	4	US-10-425-114-72377	Sequence 224630,	390	29	63.0	264	4	US-10-425-114-70519	Sequence 2, Appl1
318	29	63.0	108	4	US-10-424-599-224630	Sequence 219823,	391	29	63.0	265	4	US-10-299-393-2	Sequence 2, Appl1
319	29	63.0	111	4	US-10-424-599-219823	Sequence 219823,	392	29	63.0	265	4	US-10-299-393-2	Sequence 2, Appl1

393	29	63.0	255	4	US-10-404-724-58	Sequence 59, Appl	465	29	63.0	431	5	US-10-450-763-45491	Sequence 45491, A
394	29	63.0	265	5	US-10-816-276-54	Sequence 54, Appl	467	29	63.0	432	4	US-10-369-493-22357	Sequence 23257, A
395	29	63.0	265	5	US-10-828-559-4	Sequence 4, Appl1	468	29	63.0	443	3	US-09-866-5728-50	Sequence 50, Appl1
396	29	63.0	265	5	US-10-828-559-40	Sequence 40, Appl	469	29	63.0	443	3	US-09-866-570A-50	Sequence 50, Appl
397	29	63.0	266	5	US-10-828-559-13	Sequence 13, Appl1	470	29	63.0	443	4	US-10-166-984-50	Sequence 50, Appl1
398	29	63.0	266	5	US-10-828-559-32	Sequence 32, Appl	471	29	63.0	443	4	US-10-166-984-50	Sequence 50, Appl1
399	29	63.0	266	5	US-10-828-559-78	Sequence 78, Appl	472	29	63.0	452	4	US-10-369-493-21911	Sequence 21911, A
400	29	63.0	266	5	US-10-828-559-78	Sequence 78, Appl	473	29	63.0	456	4	US-10-161-051-150	Sequence 150, Appl
401	29	63.0	276	4	US-10-437-963-167724	Sequence 167724, Sequence 1083, Ap	474	29	63.0	468	4	US-10-437-963-109506	Sequence 109506, Sequence 183737,
402	29	63.0	289	5	US-10-828-559-14	Sequence 14, Appl	475	29	63.0	482	4	US-10-437-963-183737	Sequence 183737,
403	29	63.0	289	5	US-10-450-763-47919	Sequence 47919, A	476	29	63.0	488	4	US-10-337-963-127416	Sequence 127416,
404	29	63.0	289	5	US-10-450-763-47919	Sequence 16, Appl	477	29	63.0	489	5	US-10-450-763-45489	Sequence 45489, A
405	29	63.0	292	4	US-10-166-623-16	Sequence 16, Appl	478	29	63.0	490	4	US-10-121-746-6	Sequence 6, Appl1
406	29	63.0	292	4	US-10-166-623-16	Sequence 16, Appl	479	29	63.0	490	5	US-10-976-644-6	Sequence 6, Appl1
407	29	63.0	292	4	US-10-166-623-16	Sequence 16, Appl	480	29	63.0	490	5	US-10-976-644-6	Sequence 6, Appl1
408	29	63.0	292	4	US-10-166-623-16	Sequence 16, Appl	481	29	63.0	491	3	US-10-976-644-6	Sequence 6, Appl1
409	29	63.0	295	5	US-11-097-143-11031	Sequence 598, App	482	29	63.0	491	3	US-09-999-2208-3	Sequence 3, Appl1
410	29	63.0	295	5	US-10-282-122A-51743	Sequence 51743, A	483	29	63.0	491	3	US-09-999-2208-3	Sequence 3, Appl1
411	29	63.0	296	4	US-10-617-320-4794	Sequence 4794, Ap	484	29	63.0	491	4	US-10-435-935-3	Sequence 4, Appl1
412	29	63.0	297	3	US-10-424-599-199275	Sequence 199275, Sequence 2, Appl1	485	29	63.0	491	4	US-10-435-935-3	Sequence 4, Appl1
413	29	63.0	297	4	US-10-145-586-88	Sequence 88, Appl	486	29	63.0	500	4	US-10-156-761-13083	Sequence 13083, A
414	29	63.0	297	4	US-10-425-114-42247	Sequence 42247, A	487	29	63.0	516	4	US-10-205-194-29	Sequence 29, Appl
415	29	63.0	303	4	US-10-108-260A-3965	Sequence 3965, Ap	488	29	63.0	516	4	US-10-408-765A-906	Sequence 906, App
416	29	63.0	314	3	US-09-922-217-1110	Sequence 1110, Ap	489	29	63.0	539	4	US-10-156-761-9228	Sequence 9228, Ap
417	29	63.0	314	3	US-09-919-497-82	Sequence 82, Appl	490	29	63.0	557	4	US-10-264-237-1692	Sequence 1692, Ap
418	29	63.0	314	4	US-10-025-380-1110	Sequence 1110, Ap	491	29	63.0	558	4	US-10-276-774-1728	Sequence 1728, Ap
419	29	63.0	314	4	US-10-205-823-403	Sequence 403, App	492	29	63.0	565	4	US-10-306-905-7	Sequence 7, Appl1
420	29	63.0	314	4	US-10-404-724-60	Sequence 60, Appl	493	29	63.0	565	4	US-10-306-905-7	Sequence 7, Appl1
421	29	63.0	314	4	US-10-341-434-73	Sequence 73, Appl	494	29	63.0	578	4	US-10-424-599-264504	Sequence 264504, Appl
422	29	63.0	314	4	US-10-408-765A-38	Sequence 38, Appl	495	29	63.0	598	4	US-10-411-910A-34	Sequence 34, Appl1
423	29	63.0	314	4	US-10-408-765A-38	Sequence 38, Appl	496	29	63.0	621	4	US-10-425-115-269228	Sequence 269228, Sequence 251860,
424	29	63.0	314	4	US-10-672-878-6	Sequence 6, Appl1	497	29	63.0	631	4	US-10-424-599-251860	Sequence 251860,
425	29	63.0	314	4	US-10-672-878-6	Sequence 6, Appl1	498	29	63.0	633	4	US-10-306-905-1	Sequence 1, Appl1
426	29	63.0	314	5	US-10-643-795A-115	Sequence 115, App	499	29	63.0	633	4	US-10-437-963-198258	Sequence 198258, Sequence 1688, Ap
427	29	63.0	314	5	US-10-643-795A-115	Sequence 115, App	500	29	63.0	634	4	US-10-369-493-1688	Sequence 1688, Ap
428	29	63.0	314	5	US-10-816-276-56	Sequence 56, Appl	501	29	63.0	639	6	US-10-451-764-17	Sequence 17, Appl
429	29	63.0	314	5	US-10-816-276-56	Sequence 56, Appl	502	29	63.0	639	6	US-10-451-764-17	Sequence 17, Appl
430	29	63.0	314	5	US-10-948-518-115	Sequence 115, App	503	29	63.0	647	4	US-11-097-143-19269	Sequence 19269, A
431	29	63.0	314	5	US-10-948-518-115	Sequence 115, App	504	29	63.0	653	4	US-10-275-595A-8	Sequence 8, Appl1
432	29	63.0	314	5	US-10-948-518-115	Sequence 115, App	505	29	63.0	653	4	US-10-369-493-17008	Sequence 17008, A
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465	29	63.0	315	4	US-10-828-559-34	Sequence 34, Appl	538	29	63.0	653	4	US-10-369-493-17008	Sequence 17008, A

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540	29	63.0	887	4	US-10-041-018-308	Sequence 308, App	613	28	60.9	94	5	US-10-789-102-283	Sequence 283, App
541	29	63.0	887	4	US-10-041-018-356	Sequence 356, App	614	28	60.9	94	5	US-10-942-659-5	Sequence 5, App1
542	29	63.0	887	4	US-10-041-018-359	Sequence 359, App	615	28	60.9	94	6	US-11-021-949-302	Sequence 302, App
543	29	63.0	901	4	US-10-425-115-211423	Sequence 211423, App	616	28	60.9	94	6	US-11-021-928A-199	Sequence 199, App
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754	28	60.9	162	4	US-10-437-963-180157	Sequence 180157, A	827	28	60.9	324	4	US-10-424-599-197017	Sequence 197017, A
755	28	60.9	162	6	US-11-021-949-31	Sequence 31, Appl1	828	28	60.9	325	4	US-09-841-963A-4	Sequence 4, Appl1
756	28	60.9	166	3	US-09-977-034-14	Sequence 14, Appl1	829	28	60.9	326	4	US-10-437-963-198521	Sequence 198521, A
757	28	60.9	166	5	US-10-953-359-14	Sequence 14, Appl1	830	28	60.9	327	4	US-10-264-237-1918	Sequence 1918, Ap

831	28	60.9	335	3	US-09-126-945B-2	Sequence 2, Appli	904	28	60.9	514	4	US-10-742-682-6	Sequence 6, Appli
832	28	60.9	335	3	US-09-841-963A-2	Sequence 2, Appli	905	28	60.9	515	3	US-09-738-626-4135	Sequence 4135, Ap
833	28	60.9	335	3	US-09-866-356-1	Sequence 1, Appli	906	28	60.9	518	4	US-10-437-962-129853	Sequence 129853,
834	28	60.9	335	4	US-10-157-031-84	Sequence 84, Appli	907	28	60.9	523	5	US-10-128-558-218	Sequence 218, App
835	28	60.9	335	4	US-10-108-260A-4002	Sequence 4002, Ap	908	28	60.9	525	4	US-10-425-114-5253	Sequence 5253, A
836	28	60.9	335	4	US-10-114-270-34	Sequence 34, Appli	909	28	60.9	530	4	US-10-437-963-123772	Sequence 123772,
837	28	60.9	335	4	US-10-114-270-36	Sequence 36, Appli	910	28	60.9	532	4	US-10-437-963-123772	Sequence 123772,
838	28	60.9	335	4	US-10-648-593-345	Sequence 245, App	911	28	60.9	535	4	US-10-425-115-267843	Sequence 105254,
839	28	60.9	335	4	US-10-838-371-2	Sequence 2, Appli	912	28	60.9	536	5	US-10-414-153-38	Sequence 267843,
840	28	60.9	335	5	US-10-977-087-50	Sequence 40, Appli	913	28	60.9	538	4	US-10-114-153-26	Sequence 38, Appli
841	28	60.9	335	5	US-10-977-087-51	Sequence 51, Appli	914	28	60.9	542	4	US-10-437-963-113019	Sequence 26, Appli
842	28	60.9	335	6	US-11-122-741-11	Sequence 31, Appli	915	28	60.9	544	5	US-10-496-905-588	Sequence 113019,
843	28	60.9	340	6	US-10-186-886-2	Sequence 3, Appli	916	28	60.9	544	4	US-10-114-153-24	Sequence 588, App
844	28	60.9	343	6	US-11-097-143-37737	Sequence 4167, Ap	917	28	60.9	544	5	US-10-114-153-24	Sequence 24, Appli
845	28	60.9	353	6	US-11-097-143-1167	Sequence 7, Appli	918	28	60.9	544	4	US-10-437-963-175772	Sequence 7073, Ap
846	28	60.9	359	4	US-10-415-288-7	Sequence 20728, A	919	28	60.9	547	4	US-10-437-963-175772	Sequence 175772,
847	28	60.9	360	5	US-10-732-923-50728	Sequence 56, Appli	920	28	60.9	550	4	US-10-091-838-131	Sequence 794, App
848	28	60.9	364	4	US-10-156-275-56	Sequence 113561,	921	28	60.9	550	4	US-10-091-838-131	Sequence 131, App
849	28	60.9	374	4	US-10-437-963-113561	Sequence 113561,	922	28	60.9	556	4	US-10-114-153-28	Sequence 121, App
850	28	60.9	375	4	US-10-437-963-118923	Sequence 118923,	923	28	60.9	567	4	US-10-425-114-63551	Sequence 28, Appli
851	28	60.9	377	4	US-10-767-701-43368	Sequence 43368, A	924	28	60.9	569	4	US-10-078-929-116	Sequence 63551, A
852	28	60.9	380	4	US-10-437-963-152979	Sequence 152979,	925	28	60.9	569	4	US-10-078-929-116	Sequence 116, App
853	28	60.9	381	4	US-10-633-680-49	Sequence 49, Appli	926	28	60.9	571	3	US-10-437-963-132696	Sequence 132696,
854	28	60.9	382	3	US-09-798-889-49	Sequence 49, Appli	927	28	60.9	571	3	US-09-894-159-29	Sequence 29, Appli
855	28	60.9	384	4	US-10-282-122A-71367	Sequence 71367, A	928	28	60.9	571	4	US-09-894-159-91	Sequence 91, Appli
856	28	60.9	384	6	US-11-097-143-25809	Sequence 25809, A	929	28	60.9	574	4	US-10-038-854-109	Sequence 91, App
857	28	60.9	387	5	US-10-450-763-52356	Sequence 52356, A	930	28	60.9	580	4	US-10-425-114-53312	Sequence 109, App
858	28	60.9	389	4	US-10-156-761-10727	Sequence 10727, A	931	28	60.9	580	4	US-10-425-114-53312	Sequence 63646, A
859	28	60.9	390	4	US-10-282-122A-72268	Sequence 72268, A	932	28	60.9	587	6	US-11-097-143-47313	Sequence 53312, A
860	28	60.9	391	3	US-09-764-870-328	Sequence 328, App	933	28	60.9	590	4	US-10-724-572A-4791	Sequence 4791, Ap
861	28	60.9	391	4	US-10-125-540-328	Sequence 328, App	934	28	60.9	595	5	US-10-501-882-5822	Sequence 5822, Ap
862	28	60.9	392	4	US-10-264-237-2387	Sequence 2387, Ap	935	28	60.9	597	4	US-10-425-115-164568	Sequence 34566,
863	28	60.9	392	4	US-10-038-854-112	Sequence 112, App	936	28	60.9	604	4	US-10-437-963-150085	Sequence 150085,
864	28	60.9	392	4	US-10-282-122A-54534	Sequence 54534, A	937	28	60.9	605	4	US-10-038-854-110	Sequence 110, App
865	28	60.9	393	4	US-10-424-599-171474	Sequence 171474, A	938	28	60.9	612	4	US-10-437-963-118220	Sequence 118220,
866	28	60.9	396	4	US-10-424-599-190060	Sequence 190060,	939	28	60.9	614	3	US-09-847-208-77	Sequence 21, Appli
867	28	60.9	399	4	US-10-437-963-151364	Sequence 151364,	940	28	60.9	614	3	US-09-847-208-77	Sequence 21, Appli
868	28	60.9	402	4	US-10-425-115-368633	Sequence 368633,	941	28	60.9	614	4	US-10-100-303A-8	Sequence 8, Appli
869	28	60.9	415	6	US-11-097-143-9771	Sequence 9771, Ap	942	28	60.9	614	4	US-10-425-114-60958	Sequence 61528, A
870	28	60.9	420	4	US-10-742-682-18	Sequence 18, Appli	943	28	60.9	620	5	US-10-501-282-5824	Sequence 50098, A
871	28	60.9	420	5	US-10-450-763-58350	Sequence 58350, A	944	28	60.9	623	4	US-10-425-115-222338	Sequence 5824, Ap
872	28	60.9	425	4	US-10-156-761-9132	Sequence 9132, Ap	945	28	60.9	626	3	US-09-847-208-78	Sequence 22238,
873	28	60.9	425	4	US-10-437-963-157749	Sequence 157749,	946	28	60.9	626	4	US-10-228-806-2	Sequence 28, Appli
874	28	60.9	438	4	US-10-288-930-119	Sequence 119, App	947	28	60.9	626	4	US-10-100-303A-7	Sequence 7, Appli
875	28	60.9	438	4	US-10-282-122A-60207	Sequence 60207, A	948	28	60.9	626	4	US-10-245-871-10	Sequence 10, Appli
876	28	60.9	439	4	US-10-437-963-106484	Sequence 106484,	949	28	60.9	626	4	US-10-235-286-10	Sequence 10, Appli
877	28	60.9	439	5	US-10-739-930-6732	Sequence 6732, Ap	950	28	60.9	626	4	US-10-437-963-190192	Sequence 190192,
878	28	60.9	440	5	US-10-732-923-717	Sequence 717, App	951	28	60.9	626	5	US-10-809-659-95	Sequence 95, Appli
879	28	60.9	441	5	US-10-450-763-46899	Sequence 46899, A	952	28	60.9	626	5	US-10-809-659-95	Sequence 2, Appli
880	28	60.9	444	4	US-10-322-696-21	Sequence 21, Appli	953	28	60.9	628	5	US-10-501-282-5826	Sequence 5826, Ap
881	28	60.9	454	6	US-11-097-143-41670	Sequence 41670, A	954	28	60.9	634	3	US-09-731-221-78	Sequence 78, Appli
882	28	60.9	462	5	US-10-732-923-19444	Sequence 19444, A	955	28	60.9	634	4	US-10-389-566-437	Sequence 437, App
883	28	60.9	467	3	US-09-925-302-772	Sequence 772, App	956	28	60.9	635	5	US-10-424-599-249465	Sequence 53, Appli
884	28	60.9	467	3	US-09-925-302-772	Sequence 772, App	957	28	60.9	641	4	US-10-424-599-249465	Sequence 249465,
885	28	60.9	467	3	US-09-833-245-1976	Sequence 1976, Ap	958	28	60.9	643	3	US-09-906-226-49	Sequence 70656, A
886	28	60.9	467	6	US-11-097-143-15924	Sequence 15924, A	959	28	60.9	652	4	US-10-437-963-17514	Sequence 137514, A
887	28	60.9	469	4	US-10-437-963-194658	Sequence 194658,	960	28	60.9	654	4	US-10-156-761-13227	Sequence 243984,
888	28	60.9	469	5	US-10-391-939A-16	Sequence 16, Appli	961	28	60.9	665	4	US-10-425-115-249984	Sequence 130791,
889	28	60.9	471	4	US-10-437-963-166931	Sequence 166931,	962	28	60.9	669	4	US-10-094-749-3025	Sequence 3025, Ap
890	28	60.9	473	4	US-10-437-963-118182	Sequence 118182,	963	28	60.9	673	4	US-10-408-765A-1966	Sequence 1966, Ap
891	28	60.9	474	4	US-10-287-218-6	Sequence 6, Appli	964	28	60.9	679	5	US-10-737-460-88	Sequence 88, Appli
892	28	60.9	474	4	US-10-474-291-6	Sequence 6, Appli	965	28	60.9	679	5	US-10-840-060-147	Sequence 147, App
893	28	60.9	485	4	US-10-282-122A-70632	Sequence 70632, A	966	28	60.9	682	5	US-10-450-763-60109	Sequence 60109, A
894	28	60.9	491	4	US-10-724-972A-6151	Sequence 6151, Ap	967	28	60.9	682	5	US-10-742-682-20	Sequence 20, Appli
895	28	60.9	492	4	US-10-422-866-2	Sequence 2, Appli	968	28	60.9	689	4	US-09-894-159-26	Sequence 26, Appli
896	28	60.9	500	4	US-10-193-896-3	Sequence 3, Appli	969	28	60.9	696	4	US-10-403-142-18	Sequence 18, Appli
897	28	60.9	500	4	US-10-369-493-698	Sequence 698, App	970	28	60.9	696	4	US-10-403-142-18	Sequence 18, Appli
898	28	60.9	502	4	US-10-425-115-364562	Sequence 364562,	971	28	60.9	696	4	US-10-391-939A-14	Sequence 14, Appli
899	28	60.9	509	3	US-09-138-626-6686	Sequence 6686, Ap	972	28	60.9	696	4	US-10-450-763-60071	Sequence 60071, A
900	28	60.9	509	4	US-10-781-014-186	Sequence 186, App	973	28	60.9	705	5	US-09-833-245-1856	Sequence 1856, Ap
901	28	60.9	512	4	US-10-282-122A-78106	Sequence 78106, A	974	28	60.9	712	3	US-09-894-159-24	Sequence 24, Appli
902	28	60.9	514	3	US-09-815-242-12113	Sequence 12113, A	975	28	60.9	713	3	US-09-894-159-24	Sequence 24, Appli
903	28	60.9	514	4	US-10-282-122A-66850	Sequence 66850, A	976	28	60.9	713	3	US-09-894-159-24	Sequence 24, Appli

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977 28 60.9 713 5 US-10-391-939A-18 Sequence 18, Appl
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979 28 60.9 723 6 US-11-097-143-3903 Sequence 3903, Ap
980 28 60.9 736 6 US-11-097-143-26301 Sequence 26301, A
981 28 60.9 744 4 US-10-424-599-280067 Sequence 280067,
982 28 60.9 745 5 US-10-732-923-99005 Sequence 99005, Ap
983 28 60.9 745 5 US-10-732-923-9901 Sequence 9901, Ap
984 28 60.9 749 3 US-09-764-853-605 Sequence 605, App
985 28 60.9 750 4 US-10-332-995-8 Sequence 8, Appl1
986 28 60.9 757 5 US-10-391-939A-20 Sequence 20, Appl
987 28 60.9 757 5 US-10-391-939A-22 Sequence 22, Appl
988 28 60.9 757 5 US-10-391-939A-24 Sequence 24, Appl
989 28 60.9 767 4 US-10-425-114-5446 Sequence 5446, A
990 28 60.9 773 5 US-10-391-939A-10 Sequence 10, Appl1
991 28 60.9 778 4 US-10-437-963-132342 Sequence 132342,
992 28 60.9 809 4 US-10-312-273-169 Sequence 169, App
993 28 60.9 809 4 US-10-282-122A-54955 Sequence 54955, A
994 28 60.9 812 4 US-10-289-762-978 Sequence 978, App
995 28 60.9 819 4 US-10-425-115-347577 Sequence 347577,
996 28 60.9 836 4 US-10-425-115-261578 Sequence 261578,
997 28 60.9 839 4 US-10-282-122A-62736 Sequence 62736, A
998 28 60.9 839 4 US-10-282-122A-64625 Sequence 64625, A
999 28 60.9 841 3 US-09-894-159-2 Sequence 2, Appl1
1000 28 60.9 841 5 US-10-391-939A-12 Sequence 12, Appl1

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## ALIGNMENTS

```

RESULT 1
US-10-751-845-131
; Sequence 131, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 131
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-131

Query Match          100.0%; Score 46; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 130
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-130

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Best Local Similarity 100.0%; Pred. No. 0.061;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 3
US-10-751-845-152
; Sequence 152, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 152
; LENGTH: 42
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-152

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Best Local Similarity 100.0%; Pred. No. 0.28;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 2
US-10-751-845-130
; Sequence 130, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES

```



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; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 159
; LENGTH: 119
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-159
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Best Local Similarity 100.0%; Pred. No. 0.82; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;
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```
Qy 1 LODIETCV 9
    |||||
Db 17 LODIETCV 25
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```
RESULT 5
US-10-800-023-27
; Sequence 27, Application US/10800023
; Publication No. US20040258686A1
; GENERAL INFORMATION:
; APPLICANT: Steinman, Ralph
; APPLICANT: Nussenzweig, Michel
; APPLICANT: Hawiger, Daniel
; APPLICANT: Bonifaz, Laura
; TITLE OF INVENTION: Enhanced Antigen Delivery and Modulation
; TITLE OF INVENTION: of the Immune Response therefrom
; FILE REFERENCE: 600-1-081CONCIP1
; CURRENT APPLICATION NUMBER: US/10/800,023
; PRIOR FILING DATE: 2004-03-14
; PRIOR APPLICATION NUMBER: 09/925,284
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 09/586,704
; PRIOR FILING DATE: 2000-06-05
; PRIOR APPLICATION NUMBER: PCT/US96/01383
; PRIOR FILING DATE: 1996-01-31
; PRIOR APPLICATION NUMBER: 08/381,528
; PRIOR FILING DATE: 1995-01-31
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus B6 protein
US-10-800-023-27
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Best Local Similarity 100.0%; Pred. No. 1.1; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;
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```
Qy 1 LODIETCV 9
    |||||
Db 25 LODIETCV 33
```

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RESULT 6
US-11-021-949-28
; Sequence 28, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SONOZA
```

```
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 28
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-28
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Best Local Similarity 100.0%; Pred. No. 1.1; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;
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```
Qy 1 LODIETCV 9
    |||||
Db 25 LODIETCV 33
```

```
RESULT 7
US-10-472-724-6
; Sequence 6, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Zur Hausen, Harald
; APPLICANT: Cid-Arregui, Angel
; TITLE OF INVENTION: Modified HPV B6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; PRIOR FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 6
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-6
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Query Match          100.0%; Score 46; DB 4; Length 172;
Best Local Similarity 100.0%; Pred. No. 1.2; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;
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```
Qy 1 LODIETCV 9
    |||||
Db 31 LODIETCV 39
```

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RESULT 8
US-10-751-845-157
; Sequence 157, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
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; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 157
; LENGTH: 236
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-157
```

```
Query Match          100.0%; Score 46; DB 5; Length 236;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LODIETCV 9
Db 134 LODIETCV 142
```

```
RESULT 9
US-10-751-845-158
; Sequence 158, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 158
; LENGTH: 237
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-158
```

```
Query Match          100.0%; Score 46; DB 5; Length 237;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LODIETCV 9
Db 135 LODIETCV 143
```

```
RESULT 10
US-10-751-845-160
; Sequence 160, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
```

```
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 160
; LENGTH: 261
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-160
```

```
Query Match          100.0%; Score 46; DB 5; Length 261;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LODIETCV 9
Db 159 LODIETCV 167
```

```
RESULT 11
US-10-000-903-21
; Sequence 21, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Caberon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 21
; LENGTH: 278
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-21
```

```
Query Match          100.0%; Score 46; DB 4; Length 278;
Best Local Similarity 100.0%; Pred. No. 2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LODIETCV 9
Db 136 LODIETCV 144
```

```
RESULT 12
US-10-899-771-21
; Sequence 21, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
```

```
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 21
; LENGTH: 278
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
; OTHER INFORMATION: Influenzae B and B6 from Human papilloma virus type
; OTHER INFORMATION: 18)
US-10-899-771-21
```

```
Query Match      100.0%; Score 46; DB 5; Length 278;
Best Local Similarity 100.0%; Pred. No. 2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 LODIETCV 9
        |||||
Db      136 LODIETCV 144
```

```
RESULT 13
US-10-000-903-23
; Sequence 23, Application US/10000903
; Publication No. US2002018222A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; PRIOR FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-23
```

```
Query Match      100.0%; Score 46; DB 4; Length 383;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 LODIETCV 9
        |||||
Db      136 LODIETCV 144
```

```
RESULT 14
US-10-899-771-23
; Sequence 23, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuncted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
```

```
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
; OTHER INFORMATION: Influenzae B and B67 fusion from Human papilloma
; OTHER INFORMATION: virus type 18)
US-10-899-771-23
```

```
Query Match      100.0%; Score 46; DB 5; Length 383;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 LODIETCV 9
        |||||
Db      136 LODIETCV 144
```

```
RESULT 15
US-10-751-845-129
; Sequence 129, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; PRIOR FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 129
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-129
```

```
Query Match      91.3%; Score 42; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 LODIETC 8
        |||||
Db      2 LODIETC 9
```

```
RESULT 16
US-10-389-647-605
; Sequence 605, Application US/10389647
; Publication No. US20040033549A1
; GENERAL INFORMATION:
; APPLICANT: GREENBERG, E. Peter
; APPLICANT: SCHUSTER, Martin
; APPLICANT: LOSTROH, Candl
; TITLE OF INVENTION: QUORUM SENSING SIGNALING IN BACTERIA
; FILE REFERENCE: UI2-038CP
; CURRENT APPLICATION NUMBER: US/10/389,647
; CURRENT FILING DATE: 2003-03-14
```

```
; PRIOR APPLICATION NUMBER: 09/653730
; PRIOR FILING DATE: 2000-09-01
; PRIOR APPLICATION NUMBER: 60/153022
; PRIOR FILING DATE: 1999-09-03
; NUMBER OF SEQ ID NOS: 710
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 605
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-10-389-647-605
```

```
Query Match      87.0%; Score 40; DB 4; Length 99;
Best Local Similarity 77.8%; Pred. No. 9.1;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 LQDIETVC 9
         |||||
Db       4 LNDIEVTCV 12
```

```
RESULT 17
US-11-097-143-17043
; Sequence 17043, Application US/11097143
; Publication No. US2005020858A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS FOR DETECTING EXPRESSION OF 10,000 OR MORE
; FILE REFERENCE: CL000728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17043
; LENGTH: 481
; TYPE: PRT
; ORGANISM: DROSOPHILA
US-11-097-143-17043
```

```
Query Match      87.0%; Score 40; DB 6; Length 481;
Best Local Similarity 87.5%; Pred. No. 48;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 LQDIETVC 8
         |||||
Db       308 LQDIETVC 315
```

```
RESULT 18
US-08-911-824-61
; Sequence 61, Application US/08911824
; Publication No. US20030004323A1
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
```

```
; APPLICANT: Hackett, John R., Jr.
; APPLICANT: Yamaguchi, Julie
; APPLICANT: Golden, Alan M.
; APPLICANT: Brennan, Catherine A.
; APPLICANT: Hickman, Robert K.
; APPLICANT: Devare, Sushil G.
; TITLE OF INVENTION: NOVEL ANTIGEN CONSTRUCTS USEFUL IN THE
; TITLE OF INVENTION: DETECTION AND DIFFERENTIATION OF ANTIBODIES TO HIV
; FILE REFERENCE: 6165-US-01
; CURRENT APPLICATION NUMBER: US/08/911,824
; CURRENT FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 121
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 61
; LENGTH: 873
; TYPE: PRT
; ORGANISM: Human Immunodeficiency Virus
; FEATURE:
; OTHER INFORMATION: HIV-1 Group O isolate HAM112
US-08-911-824-61
```

```
Query Match      80.4%; Score 37; DB 2; Length 873;
Best Local Similarity 100.0%; Pred. No. 3.3e+02;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      3 DIERTCV 9
         |||||
Db       293 DIERTCV 299
```

```
RESULT 19
US-10-767-701-58324
; Sequence 58324, Application US/10767701
; Publication No. US20040172684A1
; GENERAL INFORMATION:
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement
; FILE REFERENCE: 38-21(53535)B
; CURRENT APPLICATION NUMBER: US/10/767,701
; CURRENT FILING DATE: 2004-01-29
; NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 58324
; LENGTH: 162
; TYPE: PRT
; ORGANISM: Sorghum bicolor
; FEATURE:
; OTHER INFORMATION: Clone ID: 30978582.Pep
US-10-767-701-58324
```

```
Query Match      78.3%; Score 36; DB 4; Length 162;
Best Local Similarity 62.5%; Pred. No. 86;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 LQDIETVC 8
         |||||
Db       102 LQDLVTC 109
```

```
RESULT 20
US-10-369-493-1669
; Sequence 1669, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
```

```
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 1669
; LENGTH: 274
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-10-369-493-1669

Query Match      78.3%; Score 36; DB 4; Length 274;
Best Local Similarity 66.7%; Pred. No. 1.5e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 LODIETVC 9
DB      108 LODIETCI 116

RESULT 21
US-10-243-552-539
; Sequence 539, Application US/10243552
; Publication No. US20030224379A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Wang, Zhiwei
; APPLICANT: Weng, Gezhai
; APPLICANT: Ma, Yundqing
; TITLE OF INVENTION: Novel Nucleic Acids and
; FILE REFERENCE: 807A
; CURRENT APPLICATION NUMBER: US/10/243,552
; CURRENT FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: US 60/322,511
; PRIOR FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: PCT/US00/35017
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/488,725
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: PCT/US01/02623
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: US 09/491,404
; PRIOR FILING DATE: 2000-01-25
; PRIOR APPLICATION NUMBER: PCT/US01/03800
; PRIOR FILING DATE: 2001-02-05
; PRIOR APPLICATION NUMBER: US 09/496,914
; PRIOR FILING DATE: 2000-02-03
; PRIOR APPLICATION NUMBER: US 09/560,875
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: PCT/US01/04927
; PRIOR FILING DATE: 2001-02-26
; Remaining Prior Application data removed - See file Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 998
; SOFTWARE: pc_fl_genes Version 5.0
; SEQ ID NO 539
; LENGTH: 282
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-243-552-539

Query Match      78.3%; Score 36; DB 4; Length 282;
Best Local Similarity 55.6%; Pred. No. 1.5e+02;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1 LODIETVC 9
DB      117 LODIDLTC 125

; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 1669
; LENGTH: 274
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-10-369-493-1669

Query Match      78.3%; Score 36; DB 4; Length 274;
Best Local Similarity 66.7%; Pred. No. 1.5e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 LODIETVC 9
DB      108 LODIETCI 116

RESULT 22
US-10-437-963-184385
; Sequence 184385, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Bing
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 184385
; LENGTH: 454
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_81382C.1.pep
US-10-437-963-184385

Query Match      78.3%; Score 36; DB 4; Length 454;
Best Local Similarity 62.5%; Pred. No. 2.5e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1 LODIETVC 8
DB      94 LODIDLTC 101

RESULT 23
US-10-425-115-227314
; Sequence 227314, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 227314
; LENGTH: 462
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_138903C.1.pep
US-10-425-115-227314

Query Match      78.3%; Score 36; DB 4; Length 462;
Best Local Similarity 62.5%; Pred. No. 2.6e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1 LODIETVC 8
DB      102 LODIDLTC 109

RESULT 24
US-11-021-949-29
; Sequence 29, Application US/11021949
; Publication No. US20050142541A1
```

```

; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-29
```

```

Query Match          76.1%; Score 35; DB 6; Length 158;
Best Local Similarity 66.7%; Pred. No. 1.3e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 LODIETCV 9
Db      25 LODVSIACV 33
```

```

RESULT 25
US-11-021-949-30
; Sequence 30, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 30
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-30
```

```

Query Match          76.1%; Score 35; DB 6; Length 158;
Best Local Similarity 77.8%; Pred. No. 1.3e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 LODIETCV 9
Db      25 LODIITACV 33
```

```

RESULT 26
US-10-032-585-7389
; Sequence 7389, Application US/10032585
; Publication No. US20030180953A1
; GENERAL INFORMATION:
; APPLICANT: Terry, Roemer D.
; APPLICANT: Bo, Jiang
; APPLICANT: Charles, Boone
; APPLICANT: Howard, Bussey
```

```

; TITLE OF INVENTION: Gene Disruption Methodologies for Drug Target Discovery
; FILE REFERENCE: 10182-005-999
; CURRENT APPLICATION NUMBER: US/10/032,585
; CURRENT FILING DATE: 2001-12-20
; NUMBER OF SEQ ID NOS: 8000
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7389
; LENGTH: 1070
; TYPE: PRT
; ORGANISM: Candida albicans
US-10-032-585-7389
```

```

Query Match          76.1%; Score 35; DB 4; Length 1070;
Best Local Similarity 85.7%; Pred. No. 9.7e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      2 QDIETIC 8
Db      593 EDIETIC 599
```

```

RESULT 27
US-10-437-963-131742
; Sequence 131742, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 131742
; LENGTH: 2478
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_3377C.1.pep
US-10-437-963-131742
```

```

Query Match          76.1%; Score 35; DB 4; Length 2478;
Best Local Similarity 87.5%; Pred. No. 2.3e+03;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 LODIETIC 8
Db      2230 LODIYITC 2237
```

```

RESULT 28
US-10-296-734-1354
; Sequence 1354, Application US/10296734
; Publication No. US20040054137A1
; GENERAL INFORMATION:
; APPLICANT: Ramshaw, Ian A
; APPLICANT: Thompson, Scott A
; TITLE OF INVENTION: Synthetic molecules and uses therefor
; FILE REFERENCE: Savine
; CURRENT APPLICATION NUMBER: US/10/296,734
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: AU P07761/00
; PRIOR FILING DATE: 2000-05-26
; NUMBER OF SEQ ID NOS: 1507
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1354
```

LENGTH: 30  
TYPE: PRT  
ORGANISM: Artificial  
FEATURE:  
OTHER INFORMATION: PRAME segment 16  
US-10-236-734-1354

Query Match 73.9%; Score 34; DB 4; Length 30;  
Best Local Similarity 50.0%; Pred. No. 35;  
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LODIRITC 8  
Db 12 IEDLEVTC 19

RESULT 29  
US-10-767-701-31617  
Sequence 31617, Application US/10767701  
Publication No. US20040172684A1  
GENERAL INFORMATION:  
APPLICANT: Kovalic, David K.  
APPLICANT: Zhou, Yihua  
APPLICANT: Cao, Yongwei  
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with  
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
FILE REFERENCE: 38-21(53535)B  
CURRENT APPLICATION NUMBER: US/10/767,701  
CURRENT FILING DATE: 2004-01-29  
NUMBER OF SEQ ID NOS: 63128  
SEQ ID NO 31617  
LENGTH: 67  
TYPE: PRT  
ORGANISM: Sorghum bicolor  
FEATURE:  
OTHER INFORMATION: Clone ID: SORBI-28MAY03-C101117\_1.pep  
US-10-767-701-31617

Query Match 73.9%; Score 34; DB 4; Length 67;  
Best Local Similarity 75.0%; Pred. No. 82;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 QDIRITCV 9  
Db 15 QDIRITCV 22

RESULT 30  
US-10-732-180-228  
Sequence 228, Application US/10732180  
Publication No. US20050037427A1  
GENERAL INFORMATION:  
APPLICANT: Houtzager, Erwin  
APPLICANT: Vijn, Irma M.C.  
APPLICANT: Sijmons, Peter C.  
APPLICANT: Frantzois, Cornelis J.J.  
TITLE OF INVENTION: A structure for presenting desired peptide sequences  
FILE REFERENCE: P58644US20  
CURRENT APPLICATION NUMBER: US/10/732,180  
CURRENT FILING DATE: 2003-12-10  
PRIOR APPLICATION NUMBER: US 10/016,516  
PRIOR FILING DATE: 2001-12-10  
PRIOR APPLICATION NUMBER: US 10/316,914  
PRIOR FILING DATE: 2002-12-10  
NUMBER OF SEQ ID NOS: 263  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 228  
LENGTH: 131  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: 1Mab702  
FEATURE:

NAME/KEY: SITE  
LOCATION: (1)...(131)  
US-10-732-180-228

Query Match 73.9%; Score 34; DB 5; Length 131;  
Best Local Similarity 71.4%; Pred. No. 1.6e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 QDIRITC 8  
Db 87 EDVEITC 93

RESULT 31  
US-10-316-194-9  
Sequence 9, Application US/10316194  
Publication No. US20030215914A1  
GENERAL INFORMATION:  
APPLICANT: Houtzager, Erwin  
APPLICANT: Vijn, Irma M.C.  
APPLICANT: Sijmons, Peter C.  
TITLE OF INVENTION: A structure for presenting desired peptide sequences  
FILE REFERENCE: 2183-5610US  
CURRENT APPLICATION NUMBER: US/10/316,194  
CURRENT FILING DATE: 2002-12-10  
PRIOR APPLICATION NUMBER: US 10/016,516  
PRIOR FILING DATE: 2001-12-10  
NUMBER OF SEQ ID NOS: 173  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 9  
LENGTH: 140  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: 1Mab702  
FEATURE:  
NAME/KEY: SITE  
LOCATION: (1)...(140)  
US-10-316-194-9

Query Match 73.9%; Score 34; DB 4; Length 140;  
Best Local Similarity 71.4%; Pred. No. 1.8e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 QDIRITC 8  
Db 92 EDVEITC 98

RESULT 32  
US-10-316-194-37  
Sequence 37, Application US/10316194  
Publication No. US20030215914A1  
GENERAL INFORMATION:  
APPLICANT: Houtzager, Erwin  
APPLICANT: Vijn, Irma M.C.  
APPLICANT: Sijmons, Peter C.  
TITLE OF INVENTION: A structure for presenting desired peptide sequences  
FILE REFERENCE: 2183-5610US  
CURRENT APPLICATION NUMBER: US/10/316,194  
CURRENT FILING DATE: 2002-12-10  
PRIOR APPLICATION NUMBER: US 10/016,516  
PRIOR FILING DATE: 2001-12-10  
NUMBER OF SEQ ID NOS: 173  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 37  
LENGTH: 140  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: VAP amino acid  
OTHER INFORMATION: sequence of 1Mab702  
FEATURE:

```
; NAME/KEY: SITE
; LOCATION: (1)..(140)
US-10-316-194-37
```

```
Query Match 73.9%; Score 34; DB 4; Length 140;
Best Local Similarity 71.4%; Pred. No. 1.8e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 2 QDIETC 8
; :|||
Db 92 EDVEITC 98
```

## RESULT 33

```
US-10-732-180-9
; Sequence 9, Application US/10732180
; Publication No. US20050037427A1
; GENERAL INFORMATION:
; APPLICANT: Houtzager, Erwin
; APPLICANT: Vijn, Irma M.C.
; APPLICANT: Sijmons, Peter C.
; TITLE OF INVENTION: A structure for presenting desired peptide sequences
; FILE REFERENCE: P58644US20
; CURRENT APPLICATION NUMBER: US/10/732,180
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: US 10/016,516
; PRIOR FILING DATE: 2001-12-10
; PRIOR APPLICATION NUMBER: US 10/316,914
; PRIOR FILING DATE: 2002-12-10
; NUMBER OF SEQ ID NOS: 263
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 140
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Imab702
; NAME/KEY: SITE
; LOCATION: (1)..(140)
US-10-732-180-9
```

```
Query Match 73.9%; Score 34; DB 5; Length 140;
Best Local Similarity 71.4%; Pred. No. 1.8e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 2 QDIETC 8
; :|||
Db 92 EDVEITC 98
```

## RESULT 34

```
US-10-732-180-37
; Sequence 37, Application US/10732180
; Publication No. US20050037427A1
; GENERAL INFORMATION:
; APPLICANT: Houtzager, Erwin
; APPLICANT: Vijn, Irma M.C.
; APPLICANT: Sijmons, Peter C.
; TITLE OF INVENTION: A structure for presenting desired peptide sequences
; FILE REFERENCE: P58644US20
; CURRENT APPLICATION NUMBER: US/10/732,180
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: US 10/016,516
; PRIOR FILING DATE: 2001-12-10
; PRIOR APPLICATION NUMBER: US 10/316,914
; PRIOR FILING DATE: 2002-12-10
; NUMBER OF SEQ ID NOS: 263
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 37
; LENGTH: 140
```

```
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: VAP amino acid
; OTHER INFORMATION: Sequence of Imab702
; NAME/KEY: SITE
; LOCATION: (1)..(140)
US-10-732-180-37
```

```
Query Match 73.9%; Score 34; DB 5; Length 140;
Best Local Similarity 71.4%; Pred. No. 1.8e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 2 QDIETC 8
; :|||
Db 92 EDVEITC 98
```

## RESULT 35

```
US-10-425-115-246840
; Sequence 246840, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 246840
; LENGTH: 179
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(179)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_156700C.1.pep
US-10-425-115-246840
```

```
Query Match 73.9%; Score 34; DB 4; Length 179;
Best Local Similarity 75.0%; Pred. No. 2.3e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 LODIETC 8
; :|||
Db 165 LTDIELTC 172
```

## RESULT 36

```
US-10-282-122A-47485
; Sequence 47485, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangou
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Heselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
```



```
; FILE REFERENCE: EUTRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 47485
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Burkholderia cepacia
US-10-282-122A-47485
```

```
Query Match      73.9%; Score 34; DB 4; Length 344;
Best Local Similarity 62.5%; Pred. No. 4.5e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 LODIETC 8
DB      122 LODVELAC 129
```

```
RESULT 37
US-10-328-675A-74
; Sequence 74, Application US/10328675A
; Publication No. US20030159171A1
; GENERAL INFORMATION:
; APPLICANT: Salmeron, John
; APPLICANT: Weislo, Laura
; APPLICANT: Willits, Michael
; TITLE OF INVENTION: NOVEL PLANT GENES AND USES THEREOF
; FILE REFERENCE: 30857USNP01V1
; CURRENT APPLICATION NUMBER: US/10/328,675A
; CURRENT FILING DATE: 2002-12-23
; PRIOR APPLICATION NUMBER: 09/519,232
; PRIOR FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: 60/219,338
; PRIOR FILING DATE: 1999-03-09
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 74
; LENGTH: 369
; TYPE: PRT
; ORGANISM: Nicotiana tabacum
US-10-328-675A-74
```

```
Query Match      73.9%; Score 34; DB 4; Length 369;
Best Local Similarity 71.4%; Pred. No. 4.9e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      3 DIFITCV 9
DB      227 DIFITCI 233
```

```
RESULT 38
US-10-450-763-42351
; Sequence 42351, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 42351
; LENGTH: 378
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-450-763-42351
```

```
Query Match      73.9%; Score 34; DB 5; Length 378;
Best Local Similarity 50.0%; Pred. No. 5e+02;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 LODIETC 8
DB      330 IEDLEVTIC 337
```

```
RESULT 39
US-10-450-763-42322
; Sequence 42322, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 42322
; LENGTH: 388
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-450-763-42322
```

```
Query Match      73.9%; Score 34; DB 5; Length 388;
Best Local Similarity 50.0%; Pred. No. 5.1e+02;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 LODIETC 8
DB      330 IEDLEVTIC 337
```

```
RESULT 40
US-10-732-923-20210
; Sequence 20210, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
```

```
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)/C
; CURRENT APPLICATION NUMBER: US/10/732,923
; PRIOR FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 20210
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Phlebia radiata
US-10-732-923-20210

Query Match          73.9%; Score 34; DB 5; Length 390;
Best Local Similarity 71.4%; Pred. No. 5.2e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

Qy 2 QDIEITC 8  
Db 337 QDLELTC 343

```
RESULT 41
US-09-804-357-6
; Sequence 6, Application US/09804357
; Patent No. US20010024808A1
; GENERAL INFORMATION:
; APPLICANT: White, David
; APPLICANT: Zhou, Jiansheng
; APPLICANT: Tartaglia, Louis A.
; TITLE OF INVENTION: LEPTIN INDUCED GENES
; FILE REFERENCE: 07334/109001
; CURRENT APPLICATION NUMBER: US/09/804,357
; CURRENT FILING DATE: 2001-03-12
; PRIOR APPLICATION NUMBER: US 09/195,896
; PRIOR FILING DATE: 1998-11-19
; PRIOR APPLICATION NUMBER: US 60/108,379
; PRIOR FILING DATE: 1998-10-29
; PRIOR APPLICATION NUMBER: US 09/150,857
; PRIOR FILING DATE: 1998-09-10
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 400
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-804-357-6

Query Match          73.9%; Score 34; DB 3; Length 400;
Best Local Similarity 66.7%; Pred. No. 5.3e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

Qy 1 LODIETCV 9  
Db 193 LODIRLNCV 201

```
RESULT 42
US-09-804-006-6
; Sequence 6, Application US/09804006
; Patent No. US20020119517A1
; GENERAL INFORMATION:
; APPLICANT: White, David
; APPLICANT: Zhou, Jiansheng
; APPLICANT: Tartaglia, Louis A.
; TITLE OF INVENTION: LEPTIN INDUCED GENES
; FILE REFERENCE: 07334/126001
; CURRENT APPLICATION NUMBER: US/09/804,006
; CURRENT FILING DATE: 2001-03-12
; PRIOR APPLICATION NUMBER: US 09/292,228
; PRIOR FILING DATE: 1999-04-15
; PRIOR APPLICATION NUMBER: US 60/108,379
; PRIOR FILING DATE: 1998-10-29
```

```
; PRIOR APPLICATION NUMBER: US 09/150,857
; PRIOR FILING DATE: 1998-09-10
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 400
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-804-006-6

Query Match          73.9%; Score 34; DB 3; Length 400;
Best Local Similarity 66.7%; Pred. No. 5.3e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

Qy 1 LODIETCV 9  
Db 193 LODIRLNCV 201

```
RESULT 43
US-10-097-340-254
; Sequence 254, Application US/10097340
; Publication No. US20030087250A1
; GENERAL INFORMATION:
; APPLICANT: John MONAHAN
; APPLICANT: Manjula GANNAVAPU
; APPLICANT: Sebastian HOERSCH
; APPLICANT: Shubhangi KHAMATKAR
; APPLICANT: Steve G. KOVATS
; APPLICANT: Rachel E. MEYERS
; APPLICANT: Michael MORRISSEY
; APPLICANT: Peter OLANDT
; APPLICANT: Aml SEN
; APPLICANT: Peter VEITBY
; APPLICANT: Gordon B. MILLS
; APPLICANT: Robert C. BAST, Jr.
; APPLICANT: Karen LU
; APPLICANT: Rosemarie SCHMANDT
; APPLICANT: Xumel ZHAO
; APPLICANT: Karen GLATT
; TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,
; TITLE OF INVENTION: Assessment, Prevention, and Therapy of Ovarian Cancer
; FILE REFERENCE: MRI-030
; CURRENT APPLICATION NUMBER: US/10/097,340
; CURRENT FILING DATE: 2002-03-14
; PRIOR APPLICATION NUMBER: 60/276,025
; PRIOR FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 60/325,149
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/276,026
; PRIOR FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 60/324,967
; PRIOR FILING DATE: 2001/09/26
; PRIOR APPLICATION NUMBER: 60/311,732
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/325,102
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/323,580
; PRIOR FILING DATE: 2001-09-19
; NUMBER OF SEQ ID NOS: 363
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 254
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-097-340-254

Query Match          73.9%; Score 34; DB 4; Length 509;
Best Local Similarity 50.0%; Pred. No. 6.8e+02;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

Qy 1 LODIETC 8  
Db 193 LODIRLNCV 201

Db 235 IEDELEVTC 242

```
RESULT 44
US-10-157-031-44
; Sequence 44, Application US/10157031
; Publication No. US20030108890A1
; GENERAL INFORMATION:
; APPLICANT: Baranova, A. V.
; APPLICANT: Yankovsky, N. K.
; APPLICANT: Kozlov, A. P.
; APPLICANT: Lobashev, A. V.
; APPLICANT: Krukovskaya, L. L.
; TITLE OF INVENTION: In silico screening for phenotype-associated expressed sequences
; FILE REFERENCE: 2760-103
; CURRENT APPLICATION NUMBER: US/10/157,031
; PRIOR FILING DATE: 2002-05-30
; NUMBER OF SEQ ID NOS: 415
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 44
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-157-031-44
```

```
Query Match 73.9%; Score 34; DB 4; Length 509;
Best Local Similarity 50.0%; Pred. No. 6.8e+02;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

Qy 1 LODIETC 8  
Db 235 IEDELEVTC 242

```
RESULT 45
US-10-170-385-87
; Sequence 87, Application US/10170385
; Publication No. US20030203372A1
; GENERAL INFORMATION:
; APPLICANT: Ward, Neil Raymond
; APPLICANT: Mundy, Christopher Robert
; APPLICANT: Kan, On
; APPLICANT: Harris, Robert Alan
; APPLICANT: White, Kathleen
; APPLICANT: Binley, Katie Mary
; APPLICANT: Rayner, William Nigel
; APPLICANT: Naylor, Stuart
; APPLICANT: Kingman, Susan Mary
; APPLICANT: Krige, David
; TITLE OF INVENTION: ANALYSIS METHOD
; FILE REFERENCE: 53268200100
; CURRENT APPLICATION NUMBER: US/10/170,385
; PRIOR FILING DATE: 2002-06-12
; PRIOR APPLICATION NUMBER: PCT/GB02/01662
; PRIOR FILING DATE: 2002-04-08
; PRIOR APPLICATION NUMBER: PCT/GB01/05458
; PRIOR FILING DATE: 2001-12-10
; NUMBER OF SEQ ID NOS: 549
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 87
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-10-170-385-87
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Best Local Similarity 50.0%; Pred. No. 6.8e+02;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 LODIETC 8  
Db 235 IEDELEVTC 242

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RESULT 46
US-10-117-937-77
; Sequence 77, Application US/10117937
; Publication No. US20030220239A1
; GENERAL INFORMATION:
; APPLICANT: CTL IMMUNO THERAPIES CORP.
; APPLICANT: STWARD, John, J.L.
; APPLICANT: DIAMOND, David, C.
; APPLICANT: Liu, Liping
; APPLICANT: XIE, Zhidong
; TITLE OF INVENTION: EPTOPS SEQUENCES
; FILE REFERENCE: CTLIMM.027A
; CURRENT APPLICATION NUMBER: US/10/117,937
; PRIOR FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: US 60/282,211
; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: US 60/337,017
; PRIOR FILING DATE: 2001-11-07
; PRIOR APPLICATION NUMBER: US 60/363,210
; PRIOR FILING DATE: 2002-03-07
; NUMBER OF SEQ ID NOS: 602
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 77
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-117-937-77
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Best Local Similarity 50.0%; Pred. No. 6.8e+02;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
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RESULT 47
US-10-173-999-2
; Sequence 2, Application US/10173999
; Publication No. US20040005563A1
; GENERAL INFORMATION:
; APPLICANT: Mack, David H.
; APPLICANT: Gish, Kurt C.
; APPLICANT: Bos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Ovarian Cancer; Compositions
; TITLE OF INVENTION: and Methods of Screening for Modulators of Ovarian
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: 018501-002420US
; CURRENT APPLICATION NUMBER: US/10/173,999
; PRIOR FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: US 60/299,234
; PRIOR FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: US 60/315,287
; PRIOR FILING DATE: 2001-08-27
; PRIOR APPLICATION NUMBER: US 60/350,666
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/372,246
; PRIOR FILING DATE: 2001-04-12
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: PatentIn Ver. 2.1
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; LENGTH: 509
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-173-999-2
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Query Match 73.9%; Score 34; DB 4; Length 509;
Best Local Similarity 50.0%; Pred. No. 6.8e+02;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 LODIETC 8

Db 235 IEDELEVC 242

## RESULT 48

US-10-058-270A-110  
Sequence 110, Application US/10058270A  
Publication No. US2004002911A1  
GENERAL INFORMATION:  
APPLICANT: Mack, David H.  
APPLICANT: Gish, Kurt C.  
APPLICANT: Afari, Daniel  
APPLICANT: Eos Biotechnology, Inc.  
TITLE OF INVENTION: Methods of Diagnosis of Breast Cancer, Compositions and  
FILE REFERENCE: 018501-005210US  
CURRENT APPLICATION NUMBER: US/10/058, 270A  
PRIORITY FILING DATE: 2002-01-24  
PRIORITY APPLICATION NUMBER: US 60/263, 965  
PRIORITY FILING DATE: 2001-01-24  
PRIORITY APPLICATION NUMBER: US 60/265, 928  
PRIORITY FILING DATE: 2001-02-02  
PRIORITY APPLICATION NUMBER: US 09/829, 472  
PRIORITY FILING DATE: 2001-04-09  
PRIORITY APPLICATION NUMBER: US 60/282, 698  
PRIORITY FILING DATE: 2001-04-09  
PRIORITY APPLICATION NUMBER: US 60/288, 590  
PRIORITY FILING DATE: 2001-05-04  
PRIORITY APPLICATION NUMBER: US 60/294, 443  
PRIORITY FILING DATE: 2001-05-29  
NUMBER OF SEQ ID NOS: 141  
SOFTWARE: Patentn Ver. 2.1  
SEQ ID NO 110  
LENGTH: 509  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-058-270A-110

Query Match 73.9%; Score 34; DB 4; Length 509;  
Best Local Similarity 50.0%; Pred. No. 6.8e+02;  
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 LODIETC 8

Db 235 IEDELEVC 242

## RESULT 49

US-10-296-734-830  
Sequence 830, Application US/10296734  
Publication No. US20040054137A1  
GENERAL INFORMATION:  
APPLICANT: Thompson, Scott A  
APPLICANT: Ramshaw, Ian A  
TITLE OF INVENTION: Synthetic molecules and uses therefor  
FILE REFERENCE: Savine  
CURRENT APPLICATION NUMBER: US/10/296, 734  
CURRENT FILING DATE: 2003-08-04  
PRIORITY APPLICATION NUMBER: AU PQ761/00  
PRIORITY FILING DATE: 2000-05-26  
NUMBER OF SEQ ID NOS: 1507  
SOFTWARE: Patentn version 3.2  
SEQ ID NO 830  
LENGTH: 509  
TYPE: PRT  
ORGANISM: Artificial  
FEATURE:  
OTHER INFORMATION: PRAME consensus polypeptide  
US-10-296-734-830

Query Match 73.9%; Score 34; DB 4; Length 509;  
Best Local Similarity 50.0%; Pred. No. 6.8e+02;  
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 LODIETC 8

Db 235 IEDELEVC 242

## RESULT 50

US-10-657-022-77  
Sequence 77, Application US/10657022  
Publication No. US2004018035A1  
GENERAL INFORMATION:  
APPLICANT: Simard, John J. L.  
APPLICANT: Diamond, David C.  
APPLICANT: Liu, Liping  
APPLICANT: Liu, Zheng  
TITLE OF INVENTION: EPITOP SEQUENCES  
FILE REFERENCE: MANNK, 032A  
CURRENT APPLICATION NUMBER: US/10/657, 022  
CURRENT FILING DATE: 2003-09-04  
PRIORITY APPLICATION NUMBER: 60/409123  
PRIORITY FILING DATE: 2002-09-06  
NUMBER OF SEQ ID NOS: 610  
SOFTWARE: FastSeq for windows Version 4.0  
SEQ ID NO 77  
LENGTH: 509  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-657-022-77

Query Match 73.9%; Score 34; DB 4; Length 509;  
Best Local Similarity 50.0%; Pred. No. 6.8e+02;  
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 LODIETC 8

Db 235 IEDELEVC 242

Search completed: May 5, 2006, 07:55:28  
Job time : 67.9 secs

GenCore version 5.1.7  
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OM protein - protein search, using SW model

Run on: May 5, 2006, 07:46:05 ; Search time 8.4 Seconds  
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Title: US-08-170-344-23  
Perfect score: 46  
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Scoring table: BLOSUM62  
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Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0  
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Post-processing: Minimum Match 0%  
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Listing first 1000 summaries

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12: /SID5/ptodata/1/pubppa/US60\_NEW\_PUB.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

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3	40	87.0	10	US-10-530-061-55	Sequence 15, App1
4	40	87.0	10	US-10-530-061-112	Sequence 112, App
5	37	80.4	10	US-10-530-061-517	Sequence 517, App
6	35	76.1	158	US-10-530-253-19	Sequence 19, App1
7	35	76.1	158	US-10-530-253-20	Sequence 20, App1
8	35	76.1	673	US-11-188-298-1612	Sequence 1612, App
9	34	73.9	390	US-11-087-099-4671	Sequence 4671, App
10	34	73.9	509	US-11-155-288-8	Sequence 8, App1
11	33	71.7	366	US-10-329-258-27	Sequence 27, App1
12	33	71.7	366	US-11-000-463-410	Sequence 410, App
13	33	71.7	366	US-11-000-463-882	Sequence 882, App
14	33	71.7	633	US-11-188-298-2647	Sequence 2647, App
15	32	69.6	210	US-11-096-568A-22480	Sequence 22480, App
16	32	69.6	243	US-11-096-568A-22478	Sequence 22478, App
17	32	69.6	304	US-11-096-568A-22479	Sequence 22479, App
18	32	69.6	306	US-11-096-568A-19985	Sequence 19985, App
19	32	69.6	307	US-11-096-568A-19985	Sequence 19985, App
20	32	69.6	314	US-11-096-568A-19984	Sequence 19984, App
21	32	69.6	322	US-11-096-568A-5396	Sequence 5396, App

22	32	69.6	329	US-11-096-568A-5395	Sequence 5395, App
23	32	69.6	329	US-11-096-568A-5394	Sequence 5394, App
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25	31	67.4	285	US-11-188-298-17365	Sequence 17365, App
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27	31	67.4	331	US-11-096-568A-10573	Sequence 10573, App
28	31	67.4	338	US-11-096-568A-10572	Sequence 10572, App
29	31	67.4	381	US-11-096-568A-10571	Sequence 10571, App
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31	31	67.4	387	US-11-087-099-9326	Sequence 9326, App
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33	31	67.4	452	US-10-506-454-444	Sequence 444, App
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43	30	65.2	292	US-11-129-143-96	Sequence 96, App1
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102	28	60.9	175	11	US-11-072-512-3905	Sequence 3905, Ap	175	27	58.7	217	11	US-11-188-298-7973	Sequence 7973, Ap
103	28	60.9	176	9	US-10-965-694-27	Sequence 27, Appl	176	27	58.7	218	11	US-11-218-821-8	Sequence 8, Appl1
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105	28	60.9	221	11	US-11-096-568A-9521	Sequence 9521, A	178	27	58.7	223	11	US-11-096-568A-77067	Sequence 27067, A
106	28	60.9	221	11	US-11-172-740-1624	Sequence 1624, Ap	179	27	58.7	225	11	US-11-096-568A-27066	Sequence 27066, A
107	28	60.9	226	9	US-10-714-887-180	Sequence 180, App	180	27	58.7	227	11	US-11-096-568A-33751	Sequence 33751, A
108	28	60.9	225	11	US-11-188-298-4249	Sequence 4249, Ap	181	27	58.7	237	9	US-10-793-626-3288	Sequence 3288, Ap
109	28	60.9	272	11	US-11-096-568A-9520	Sequence 9520, App	182	27	58.7	240	11	US-11-096-568A-33750	Sequence 33750, A
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115	28	60.9	335	11	US-11-072-175-245	Sequence 245, App	188	27	58.7	299	9	US-10-455-772-954	Sequence 954, App
116	28	60.9	339	9	US-10-888-962-5	Sequence 5, Appl1	189	27	58.7	302	11	US-11-156-084-334	Sequence 334, App
117	28	60.9	359	11	US-11-096-568A-3958	Sequence 3958, Ap	190	27	58.7	305	9	US-10-793-626-2062	Sequence 2062, Ap
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119	28	60.9	448	11	US-11-013-247A-5	Sequence 5, Appl1	192	27	58.7	314	9	US-10-878-556A-39	Sequence 39, Appl
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122	28	60.9	485	9	US-10-793-626-1346	Sequence 1346, App	195	27	58.7	321	11	US-11-096-568A-33749	Sequence 33749, A
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130	28	60.9	626	9	US-10-498-026-89	Sequence 89, Appl	203	27	58.7	344	11	US-11-144-747A-2	Sequence 14815, A
131	28	60.9	626	11	US-11-033-039-10	Sequence 10, Appl	204	27	58.7	344	11	US-11-188-298-14815	Sequence 2, Appl1
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133	28	60.9	696	9	US-10-453-372-324	Sequence 324, App	206	27	58.7	350	11	US-11-087-099-315	Sequence 315, App
134	28	60.9	696	9	US-10-453-372-336	Sequence 336, App	207	27	58.7	352	11	US-11-096-568A-10520	Sequence 10520, A
135	28	60.9	696	9	US-10-453-372-346	Sequence 346, App	208	27	58.7	359	9	US-10-455-772-952	Sequence 952, App
136	28	60.9	696	9	US-10-453-372-354	Sequence 354, App	209	27	58.7	363	9	US-10-455-772-950	Sequence 950, App
137	28	60.9	696	9	US-10-453-372-356	Sequence 356, App	210	27	58.7	367	11	US-11-096-568A-25243	Sequence 25243, A
138	28	60.9	696	9	US-10-453-372-358	Sequence 358, App	211	27	58.7	368	11	US-11-188-298-15342	Sequence 15342, A
139	28	60.9	696	9	US-10-453-372-360	Sequence 360, App	212	27	58.7	370	11	US-11-096-568A-15117	Sequence 15117, A
140	28	60.9	696	9	US-10-453-372-362	Sequence 362, App	213	27	58.7	375	9	US-10-455-772-948	Sequence 948, App
141	28	60.9	696	9	US-10-453-372-364	Sequence 364, App	214	27	58.7	375	9	US-10-455-772-948	Sequence 948, App
142	28	60.9	696	9	US-10-453-372-366	Sequence 366, App	215	27	58.7	379	11	US-11-096-568A-25242	Sequence 25242, A
143	28	60.9	696	9	US-10-453-372-368	Sequence 368, App	216	27	58.7	380	11	US-11-096-568A-33250	Sequence 33250, A
144	28	60.9	700	9	US-10-453-372-326	Sequence 326, App	217	27	58.7	382	11	US-11-087-099-10593	Sequence 10593, A
145	28	60.9	712	11	US-11-264-096-1856	Sequence 1856, Ap	218	27	58.7	382	11	US-11-096-568A-15116	Sequence 15116, A
146	28	60.9	713	9	US-10-453-372-322	Sequence 322, App	219	27	58.7	384	9	US-10-523-038-1	Sequence 1, Appl1
147	28	60.9	750	11	US-11-225-354-1	Sequence 1, Appl1	220	27	58.7	384	11	US-11-129-442-21	Sequence 21, Appl
148	28	60.9	757	9	US-10-453-372-320	Sequence 320, App	221	27	58.7	384	11	US-11-129-442-39	Sequence 39, Appl
149	28	60.9	757	9	US-10-453-372-350	Sequence 350, App	222	27	58.7	384	11	US-11-129-442-41	Sequence 41, Appl
150	28	60.9	757	9	US-10-453-372-352	Sequence 352, App	223	27	58.7	385	11	US-11-096-568A-33249	Sequence 33249, A
151	28	60.9	763	9	US-10-453-372-328	Sequence 328, App	224	27	58.7	401	11	US-11-079-463-10037	Sequence 10037, A
152	28	60.9	773	9	US-10-453-372-348	Sequence 348, App	225	27	58.7	412	9	US-10-506-454-866	Sequence 866, App
153	28	60.9	778	9	US-10-453-372-330	Sequence 330, App	226	27	58.7	414	11	US-11-096-568A-25241	Sequence 25241, A
154	28	60.9	840	11	US-11-188-298-10778	Sequence 10778, A	227	27	58.7	417	11	US-11-096-568A-15115	Sequence 15115, A
155	28	60.9	841	9	US-10-453-372-334	Sequence 334, App	228	27	58.7	428	9	US-10-506-454-122	Sequence 122, App
156	28	60.9	957	11	US-11-098-686-11422	Sequence 11422, A	229	27	58.7	430	9	US-10-467-657-2346	Sequence 2346, Ap
157	28	60.9	1267	11	US-11-109-156-35	Sequence 35, Appl	230	27	58.7	447	11	US-11-169-041-142	Sequence 142, App
158	28	60.9	1375	11	US-11-044-111-23	Sequence 23, Appl	231	27	58.7	449	11	US-11-133-360-12	Sequence 12, Appl
159	28	60.9	3475	11	US-11-087-099-10885	Sequence 10885, A	232	27	58.7	449	11	US-11-133-346-16	Sequence 16, Appl
160	27	58.7	10	9	US-10-530-061-65	Sequence 65, Appl	233	27	58.7	450	11	US-11-133-360-16	Sequence 16, Appl
161	27	58.7	51	11	US-11-004-399-916	Sequence 916, App	234	27	58.7	450	11	US-11-133-360-18	Sequence 18, Appl
162	27	58.7	57	11	US-11-000-463-937	Sequence 937, App	235	27	58.7	450	11	US-11-133-346-16	Sequence 16, Appl
163	27	58.7	111	9	US-10-982-440-14	Sequence 14, Appl	236	27	58.7	450	11	US-11-133-346-18	Sequence 18, Appl
164	27	58.7	119	11	US-11-079-463-7698	Sequence 7698, Ap	237	27	58.7	451	9	US-10-509-773-13	Sequence 12, Appl
165	27	58.7	122	11	US-11-072-512-3515	Sequence 3515, Ap	238	27	58.7	452	11	US-11-188-298-8926	Sequence 8926, Ap
166	27	58.7	148	11	US-11-072-512-2971	Sequence 2971, Ap	239	27	58.7	454	11	US-11-096-568A-19388	Sequence 19388, A
167	27	58.7	175	11	US-11-188-298-9926	Sequence 9926, Ap	240	27	58.7	465	8	US-10-505-928-549	Sequence 549, App

241	27	58.7	465	11	US-11-186-284-197	Sequence 197, App	314	26	56.5	108	11	US-11-049-536-540	Sequence 540, App
242	27	58.7	469	11	US-11-133-360-14	Sequence 14, App1	315	26	56.5	109	11	US-11-199-739-540	Sequence 540, App
243	27	58.7	469	11	US-11-133-346-14	Sequence 4, App1	316	26	56.5	108	11	US-11-221-900-4	Sequence 4, App1
244	27	58.7	471	11	US-11-072-512-3482	Sequence 3482, Ap	317	26	56.5	109	11	US-11-087-099-3477	Sequence 3477, Ap
245	27	58.7	475	11	US-11-096-568A-10965	Sequence 10965, A	318	26	56.5	110	9	US-10-771-257-37	Sequence 37, App1
246	27	58.7	478	11	US-11-096-568A-10964	Sequence 10964, A	319	26	56.5	110	9	US-10-935-005B-76	Sequence 76, App1
247	27	58.7	484	11	US-11-096-568A-1387	Sequence 19387, A	320	26	56.5	110	9	US-10-935-005B-77	Sequence 77, App1
248	27	58.7	492	11	US-11-072-512-3481	Sequence 3481, Ap	321	26	56.5	110	9	US-10-935-005B-79	Sequence 79, App1
249	27	58.7	508	11	US-11-096-568A-10963	Sequence 10963, A	322	26	56.5	110	9	US-10-935-005B-80	Sequence 80, App1
250	27	58.7	512	11	US-11-045-004-874	Sequence 874, App	323	26	56.5	110	11	US-11-127-677-37	Sequence 37, App1
251	27	58.7	515	11	US-11-096-568A-416	Sequence 416, App	324	26	56.5	110	11	US-11-235-776A-22	Sequence 22, App1
252	27	58.7	517	11	US-11-188-298-20792	Sequence 20792, A	325	26	56.5	110	11	US-11-235-776A-23	Sequence 23, App1
253	27	58.7	522	11	US-11-188-298-13552	Sequence 13552, A	326	26	56.5	110	11	US-11-235-776A-25	Sequence 25, App1
254	27	58.7	525	11	US-11-188-298-13592	Sequence 13592, A	327	26	56.5	110	11	US-11-235-776A-26	Sequence 26, App1
255	27	58.7	525	8	US-10-503-253A-4	Sequence 4, App1	328	26	56.5	113	11	US-11-197-039-42	Sequence 42, App1
256	27	58.7	537	9	US-10-330-773-263	Sequence 263, App	329	26	56.5	113	11	US-11-197-644-42	Sequence 42, App1
257	27	58.7	542	11	US-11-031-206-110	Sequence 110, App	330	26	56.5	114	9	US-10-454-437-204	Sequence 204, App
258	27	58.7	559	11	US-11-096-568A-415	Sequence 415, App	331	26	56.5	121	11	US-11-188-298-12838	Sequence 12838, A
259	27	58.7	559	11	US-11-096-568A-417	Sequence 417, App	332	26	56.5	136	9	US-10-475-075-817	Sequence 817, App
260	27	58.7	571	11	US-11-072-512-3779	Sequence 3779, Ap	333	26	56.5	137	11	US-11-188-298-17739	Sequence 7739, Ap
261	27	58.7	577	9	US-10-493-909-66	Sequence 66, App1	334	26	56.5	137	11	US-11-188-298-18961	Sequence 18961, A
262	27	58.7	590	11	US-11-096-568A-414	Sequence 414, App	335	26	56.5	139	9	US-10-995-561-613	Sequence 613, App
263	27	58.7	610	11	US-11-072-512-2672	Sequence 2672, Ap	336	26	56.5	139	11	US-11-169-041-201	Sequence 201, App
264	27	58.7	647	11	US-11-188-298-21861	Sequence 21861, A	337	26	56.5	144	11	US-11-188-298-13642	Sequence 13642, A
265	27	58.7	653	11	US-11-079-463-8199	Sequence 8199, App	338	26	56.5	147	11	US-11-188-298-17883	Sequence 17883, A
266	27	58.7	726	11	US-11-072-512-2042	Sequence 2042, Ap	339	26	56.5	149	9	US-10-530-253-17	Sequence 17, App1
267	27	58.7	738	8	US-10-511-937-2418	Sequence 2418, Ap	340	26	56.5	149	9	US-10-530-253-24	Sequence 24, App1
268	27	58.7	738	9	US-10-995-561-692	Sequence 692, App	341	26	56.5	158	11	US-11-188-298-18071	Sequence 18071, A
269	27	58.7	738	9	US-10-995-561-693	Sequence 693, App	342	26	56.5	158	11	US-11-188-298-22222	Sequence 22222, A
270	27	58.7	747	9	US-10-784-004-536	Sequence 636, App	343	26	56.5	161	10	US-11-219-563-142	Sequence 142, App
271	27	58.7	747	9	US-10-784-004-720	Sequence 720, App	344	26	56.5	161	11	US-11-218-813-142	Sequence 2268, Ap
272	27	58.7	747	9	US-10-784-004-721	Sequence 721, App	345	26	56.5	167	11	US-11-188-298-2268	Sequence 21178, A
273	27	58.7	759	11	US-11-096-568A-229705	Sequence 229705, A	346	26	56.5	167	11	US-11-087-099-3173	Sequence 3173, Ap
274	27	58.7	764	11	US-11-096-568A-229705	Sequence 229705, A	347	26	56.5	167	11	US-11-264-096-4206	Sequence 4206, App
275	27	58.7	767	11	US-11-096-568A-229704	Sequence 229704, A	348	26	56.5	168	11	US-11-188-298-8372	Sequence 8372, Ap
276	27	58.7	775	11	US-11-188-298-15696	Sequence 15696, A	349	26	56.5	173	11	US-11-087-099-3173	Sequence 3173, Ap
277	27	58.7	817	9	US-10-793-626-2948	Sequence 2948, Ap	350	26	56.5	180	11	US-11-188-298-15204	Sequence 15204, A
278	27	58.7	836	11	US-11-165-819-3	Sequence 3, App1	351	26	56.5	204	11	US-11-128-440-7	Sequence 7, App1
279	27	58.7	879	11	US-11-045-004-1086	Sequence 1086, Ap	352	26	56.5	204	11	US-11-128-440-15	Sequence 15, App1
280	27	58.7	912	9	US-10-501-035-372	Sequence 372, App	353	26	56.5	204	11	US-11-096-568A-21632	Sequence 21632, A
281	27	58.7	947	9	US-10-493-537-17	Sequence 17, App1	354	26	56.5	204	11	US-11-055-822-532	Sequence 532, App
282	27	58.7	949	9	US-10-506-454-104	Sequence 104, App	355	26	56.5	204	9	US-10-506-454-62	Sequence 62, App1
283	27	58.7	974	11	US-11-096-568A-26839	Sequence 26839, A	356	26	56.5	204	11	US-11-128-440-3	Sequence 3, App1
284	27	58.7	987	11	US-10-770-726-61	Sequence 61, App1	357	26	56.5	204	11	US-11-128-440-7	Sequence 7, App1
285	27	58.7	987	11	US-11-203-251A-87	Sequence 87, App1	358	26	56.5	204	11	US-11-128-440-15	Sequence 15, App1
286	27	58.7	995	11	US-11-113-424-62	Sequence 62, App1	359	26	56.5	204	11	US-11-096-568A-21632	Sequence 21632, A
287	27	58.7	1027	9	US-10-330-773-265	Sequence 265, App	360	26	56.5	205	11	US-11-128-440-5	Sequence 5, App1
288	27	58.7	1049	9	US-10-979-095-7	Sequence 7, App1	361	26	56.5	206	11	US-11-128-440-5	Sequence 5, App1
289	27	58.7	1051	9	US-10-330-773-268	Sequence 268, App	362	26	56.5	206	11	US-11-264-096-684	Sequence 684, App
290	27	58.7	1055	11	US-11-169-041-155	Sequence 155, App	363	26	56.5	208	11	US-11-128-440-4	Sequence 4, App1
291	27	58.7	1055	11	US-11-072-512-139	Sequence 139, App	364	26	56.5	208	11	US-11-128-440-6	Sequence 6, App1
292	27	58.7	1055	11	US-11-203-251A-86	Sequence 86, App1	365	26	56.5	209	11	US-11-128-440-10	Sequence 10, App1
293	27	58.7	1055	11	US-11-051-720-1417	Sequence 1417, Ap	366	26	56.5	210	11	US-11-197-038-38	Sequence 38, App1
294	27	58.7	1055	11	US-11-096-568A-26838	Sequence 26838, A	367	26	56.5	210	11	US-11-197-644-38	Sequence 38, App1
295	27	58.7	1057	11	US-11-096-568A-26837	Sequence 26837, A	368	26	56.5	211	11	US-11-128-440-8	Sequence 8, App1
296	27	58.7	1390	11	US-11-063-343-35	Sequence 35, App1	369	26	56.5	214	11	US-11-128-440-14	Sequence 14, App1
297	27	58.7	231	11	US-11-172-740-1481	Sequence 1481, Ap	370	26	56.5	215	11	US-11-188-298-19501	Sequence 19051, A
298	27	58.7	240	11	US-11-172-740-1482	Sequence 1482, Ap	371	26	56.5	215	11	US-11-128-440-13	Sequence 13, App1
299	27	58.7	247	11	US-11-172-740-1483	Sequence 1483, Ap	372	26	56.5	216	11	US-11-128-440-11	Sequence 11, App1
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301	26	56.5	10	9	US-10-859-643-177	Sequence 177, App	374	26	56.5	217	11	US-11-218-821-31	Sequence 31, App1
302	26	56.5	10	9	US-10-530-061-561	Sequence 561, App	375	26	56.5	217	11	US-11-217-995-32	Sequence 32, App1
303	26	56.5	10	11	US-11-097-864-177	Sequence 177, App	376	26	56.5	217	11	US-11-235-776A-28	Sequence 28, App1
304	26	56.5	10	11	US-11-097-912-177	Sequence 177, App	377	26	56.5	217	11	US-11-235-776A-29	Sequence 29, App1
305	26	56.5	15	9	US-10-530-061-1673	Sequence 1673, App	378	26	56.5	218	11	US-11-218-821-1	Sequence 1, App1
306	26	56.5	24	11	US-11-226-869-627	Sequence 627, App	379	26	56.5	218	11	US-11-218-821-2	Sequence 2, App1
307	26	56.5	81	11	US-11-079-463-9096	Sequence 9096, App	380	26	56.5	218	11	US-11-218-821-4	Sequence 4, App1
308	26	56.5	100	11	US-11-207-078-192	Sequence 192, App	381	26	56.5	218	11	US-11-218-821-5	Sequence 5, App1
309	26	56.5	106	11	US-11-064-174-50	Sequence 50, App1	382	26	56.5	218	11	US-11-208-422-29	Sequence 29, App1
310	26	56.5	106	11	US-11-049-536-488	Sequence 488, App	383	26	56.5	218	11	US-11-208-422-30	Sequence 30, App1
311	26	56.5	106	11	US-11-199-739-488	Sequence 488, App	384	26	56.5	218	11	US-11-208-422-32	Sequence 32, App1
312	26	56.5	108	9	US-10-771-257-31	Sequence 31, App1	385	26	56.5	218	11	US-11-208-422-32	Sequence 32, App1
313	26	56.5	108	11	US-11-127-677-31	Sequence 31, App1	386	26	56.5	218	11	US-11-208-422-33	Sequence 33, App1

387	26	56.5	218	11	US-11-217-995-31	Sequence 31, Appl	460	26	56.5	251	11	US-11-266-444-1232	Sequence 1232, Ap
388	26	56.5	218	11	US-11-217-995-33	Sequence 33, Appl	461	26	56.5	253	11	US-11-054-515-1526	Sequence 1526, Ap
389	26	56.5	218	11	US-11-217-995-34	Sequence 34, Appl	462	26	56.5	253	11	US-11-266-444-1526	Sequence 1526, Ap
390	26	56.5	219	11	US-11-128-440-12	Sequence 12, Appl	463	26	56.5	255	11	US-11-057-923-5	Sequence 5, Appl1
391	26	56.5	220	11	US-11-197-038-40	Sequence 40, Appl	464	26	56.5	256	11	US-11-029-003-14	Sequence 14, Appl
392	26	56.5	220	11	US-11-208-422-38	Sequence 38, Appl	465	26	56.5	257	11	US-11-079-463-8138	Sequence 8138, Ap
393	26	56.5	220	11	US-11-197-644-40	Sequence 40, Appl	466	26	56.5	258	9	US-10-512-184-26	Sequence 26, Appl
394	26	56.5	224	11	US-11-087-099-4273	Sequence 4273, Ap	467	26	56.5	259	11	US-11-057-923-6	Sequence 6, Appl1
395	26	56.5	224	11	US-11-197-488-17	Sequence 17, Appl	468	26	56.5	259	11	US-11-072-512-2303	Sequence 2303, Ap
396	26	56.5	224	11	US-11-188-298-12007	Sequence 12007, A	469	26	56.5	264	11	US-11-264-096-2022	Sequence 2022, Ap
397	26	56.5	225	11	US-11-128-440-1	Sequence 1, Appl1	470	26	56.5	265	9	US-10-506-454-1128	Sequence 1128, Ap
398	26	56.5	225	11	US-11-092-353-9	Sequence 9, Appl1	471	26	56.5	267	9	US-10-841-956A-8	Sequence 8, Appl1
399	26	56.5	225	11	US-11-128-937-9	Sequence 9, Appl1	472	26	56.5	269	9	US-10-841-956A-5	Sequence 5, Appl1
400	26	56.5	225	11	US-11-190-202-13	Sequence 13, Appl	473	26	56.5	270	9	US-10-841-956A-5	Sequence 5, Appl1
401	26	56.5	226	11	US-11-087-099-561	Sequence 561, App	474	26	56.5	271	11	US-11-096-568A-28742	Sequence 28742, A
402	26	56.5	227	9	US-10-841-956A-17	Sequence 17, Appl	475	26	56.5	273	11	US-10-115-609-39	Sequence 39, Appl
403	26	56.5	227	11	US-11-008-727-14	Sequence 14, Appl	476	26	56.5	273	11	US-11-113-424-74	Sequence 74, Appl
404	26	56.5	227	11	US-11-104-111-5	Sequence 5, Appl1	477	26	56.5	273	11	US-11-113-424-75	Sequence 75, Appl
405	26	56.5	227	11	US-11-201-825-67	Sequence 67, Appl	478	26	56.5	274	11	US-11-072-512-2191	Sequence 2191, Ap
406	26	56.5	228	11	US-10-841-956A-16	Sequence 16, Appl	479	26	56.5	276	11	US-11-029-003-18	Sequence 18, Appl
407	26	56.5	228	11	US-11-104-111-3	Sequence 3, Appl1	480	26	56.5	280	11	US-11-248-702A-5	Sequence 5, Appl1
408	26	56.5	228	11	US-11-104-111-4	Sequence 4, Appl1	481	26	56.5	281	9	US-10-841-956A-7	Sequence 7, Appl1
409	26	56.5	229	11	US-11-235-776A-30	Sequence 30, Appl	482	26	56.5	282	9	US-10-841-956A-6	Sequence 6, Appl1
410	26	56.5	229	11	US-11-235-776A-31	Sequence 31, Appl	483	26	56.5	283	11	US-11-264-096-821	Sequence 821, App
411	26	56.5	231	11	US-11-128-440-16	Sequence 16, Appl	484	26	56.5	284	9	US-10-892-379-10	Sequence 10, Appl
412	26	56.5	231	11	US-11-128-440-17	Sequence 17, Appl	485	26	56.5	284	9	US-10-853-372-790	Sequence 790, App
413	26	56.5	232	9	US-10-636-320-4	Sequence 4, Appl1	486	26	56.5	286	11	US-11-188-228-15609	Sequence 15609, A
414	26	56.5	232	11	US-10-948-053-1	Sequence 1, Appl1	487	26	56.5	290	9	US-10-453-372-776	Sequence 776, App
415	26	56.5	232	11	US-11-227-340-7	Sequence 7, Appl1	488	26	56.5	292	11	US-11-087-719-73	Sequence 73, Appl
416	26	56.5	232	11	US-11-201-825-66	Sequence 66, Appl	489	26	56.5	292	11	US-11-087-719-75	Sequence 75, Appl
417	26	56.5	232	11	US-11-201-585-5	Sequence 5, Appl1	490	26	56.5	293	9	US-10-841-956A-9	Sequence 9, Appl1
418	26	56.5	232	11	US-11-201-585-6	Sequence 6, Appl1	491	26	56.5	296	9	US-10-954-468-9	Sequence 9, Appl1
419	26	56.5	232	11	US-11-202-287-30	Sequence 30, Appl	492	26	56.5	299	9	US-10-467-657-4424	Sequence 4424, Ap
420	26	56.5	233	11	US-11-247-304-21	Sequence 21, Appl	493	26	56.5	300	11	US-11-188-228-15521	Sequence 15521, A
421	26	56.5	233	11	US-11-251-011-21	Sequence 21, Appl	494	26	56.5	309	9	US-10-862-109-9	Sequence 9, Appl1
422	26	56.5	233	11	US-11-251-012-21	Sequence 21, Appl	495	26	56.5	302	9	US-10-453-372-780	Sequence 780, App
423	26	56.5	234	11	US-11-128-440-21	Sequence 21, Appl	496	26	56.5	302	9	US-10-453-372-782	Sequence 782, App
424	26	56.5	235	9	US-10-453-372-784	Sequence 784, App	497	26	56.5	302	9	US-10-453-372-788	Sequence 788, App
425	26	56.5	235	11	US-11-188-298-11473	Sequence 11473, A	498	26	56.5	302	9	US-10-453-372-792	Sequence 792, App
426	26	56.5	238	11	US-10-841-956A-20	Sequence 20, Appl	499	26	56.5	302	11	US-11-264-096-2151	Sequence 2151, Ap
427	26	56.5	238	11	US-11-029-003-4	Sequence 4, Appl1	500	26	56.5	303	11	US-11-087-719-71	Sequence 71, Appl
428	26	56.5	241	11	US-11-188-298-19691	Sequence 19691, A	501	26	56.5	306	11	US-11-052-554A-259	Sequence 259, App
429	26	56.5	245	11	US-11-029-003-20	Sequence 20, Appl	502	26	56.5	306	11	US-11-188-228-1535	Sequence 3535, Ap
430	26	56.5	246	11	US-11-054-515-1980	Sequence 1980, Ap	503	26	56.5	306	11	US-11-188-228-1547	Sequence 14547, A
431	26	56.5	246	11	US-11-128-440-18	Sequence 18, Appl	504	26	56.5	307	11	US-11-123-241-12	Sequence 12, Appl
432	26	56.5	246	11	US-11-266-444-1257	Sequence 1257, Ap	505	26	56.5	308	11	US-11-096-668-10143	Sequence 10143, A
433	26	56.5	247	11	US-11-266-444-1980	Sequence 1980, Ap	506	26	56.5	309	9	US-11-096-568A-28741	Sequence 28741, A
434	26	56.5	247	9	US-10-935-005B-82	Sequence 82, Appl	507	26	56.5	309	9	US-10-453-372-778	Sequence 778, App
435	26	56.5	247	9	US-10-935-005B-85	Sequence 85, Appl	508	26	56.5	309	9	US-10-880-881-51	Sequence 51, Appl
436	26	56.5	247	9	US-10-935-005B-87	Sequence 87, Appl	509	26	56.5	309	9	US-10-862-109-7	Sequence 7, Appl1
437	26	56.5	247	11	US-10-935-005B-88	Sequence 88, Appl	510	26	56.5	310	11	US-11-096-568A-21631	Sequence 21631, A
438	26	56.5	247	11	US-11-054-515-1257	Sequence 1257, Ap	511	26	56.5	310	11	US-11-188-228-8248	Sequence 8248, Ap
439	26	56.5	248	11	US-11-266-444-1257	Sequence 1257, Ap	512	26	56.5	311	11	US-11-188-228-8248	Sequence 8248, Ap
440	26	56.5	248	11	US-11-128-440-1	Sequence 1, Appl	513	26	56.5	312	9	US-10-873-528-69	Sequence 69, Appl
441	26	56.5	248	11	US-11-104-111-21	Sequence 21, Appl	514	26	56.5	317	11	US-11-045-004-294	Sequence 294, App
442	26	56.5	249	9	US-10-467-657-932	Sequence 932, App	515	26	56.5	318	11	US-11-045-004-356	Sequence 356, App
443	26	56.5	249	9	US-10-467-657-932	Sequence 932, App	516	26	56.5	319	11	US-11-087-099-1884	Sequence 1984, Ap
444	26	56.5	249	9	US-10-935-005B-83	Sequence 83, Appl	517	26	56.5	320	10	US-11-183-218-50	Sequence 50, Appl
445	26	56.5	249	9	US-10-935-005B-86	Sequence 86, Appl	518	26	56.5	320	11	US-11-183-205-50	Sequence 50, Appl
446	26	56.5	249	11	US-10-935-005B-89	Sequence 89, Appl	519	26	56.5	321	9	US-10-467-657-1710	Sequence 1710, Ap
447	26	56.5	250	11	US-11-113-424-30	Sequence 30, Appl	520	26	56.5	321	11	US-11-166-427-8	Sequence 8, Appl1
448	26	56.5	250	9	US-10-821-234-1659	Sequence 1659, Ap	521	26	56.5	323	11	US-11-197-038-37	Sequence 37, Appl
449	26	56.5	250	11	US-11-128-440-20	Sequence 20, Appl	522	26	56.5	323	11	US-11-197-644-37	Sequence 37, Appl
450	26	56.5	251	11	US-11-242-294-35	Sequence 35, Appl	523	26	56.5	324	11	US-11-197-038-36	Sequence 36, Appl
451	26	56.5	251	11	US-10-935-005B-84	Sequence 84, Appl	524	26	56.5	324	11	US-11-197-644-36	Sequence 36, Appl
452	26	56.5	251	11	US-11-054-515-856	Sequence 856, App	525	26	56.5	325	11	US-11-188-228-9372	Sequence 9372, Ap
453	26	56.5	251	11	US-11-054-515-1232	Sequence 1232, Ap	526	26	56.5	326	9	US-10-939-866-36	Sequence 36, Appl
454	26	56.5	251	11	US-11-242-294-6	Sequence 6, Appl1	527	26	56.5	326	9	US-10-988-207-24	Sequence 24, Appl
455	26	56.5	251	11	US-11-242-294-29	Sequence 29, Appl	528	26	56.5	326	9	US-10-493-909-22	Sequence 22, Appl
456	26	56.5	251	11	US-11-242-294-31	Sequence 31, Appl	529	26	56.5	326	9	US-10-935-005B-67	Sequence 67, Appl
457	26	56.5	251	11	US-11-242-294-33	Sequence 33, Appl	530	26	56.5	326	10	US-11-091-234A-36	Sequence 36, Appl
458	26	56.5	251	11	US-11-242-294-37	Sequence 37, Appl	531	26	56.5	326	11	US-11-144-248-28	Sequence 28, Appl
459	26	56.5	251	11	US-11-242-294-39	Sequence 39, Appl	532	26	56.5	326	11	US-11-061-821-36	Sequence 36, Appl



533	26	56.5	326	11	US-11-102-621-2	Sequence 2, Appl	606	26	56.5	327	11	US-11-061-821-38	Sequence 38, Appl
534	26	56.5	326	11	US-11-102-621-10	Sequence 10, Appl	607	26	56.5	327	11	US-11-102-621-114	Sequence 114, App
535	26	56.5	326	11	US-11-102-621-11	Sequence 11, Appl	608	26	56.5	327	11	US-11-102-621-116	Sequence 116, App
536	26	56.5	326	11	US-11-102-621-12	Sequence 12, Appl	609	26	56.5	327	11	US-11-102-621-117	Sequence 117, App
537	26	56.5	326	11	US-11-102-621-13	Sequence 13, Appl	610	26	56.5	327	11	US-11-124-620-4	Sequence 4, Appl
538	26	56.5	326	11	US-11-102-621-14	Sequence 14, Appl	611	26	56.5	327	11	US-11-233-683-4	Sequence 4, Appl
539	26	56.5	326	11	US-11-102-621-15	Sequence 15, Appl	612	26	56.5	328	9	US-10-512-184-63	Sequence 63, Appl
540	26	56.5	326	11	US-11-102-621-16	Sequence 16, Appl	613	26	56.5	328	9	US-10-880-881-47	Sequence 47, Appl
541	26	56.5	326	11	US-11-102-621-17	Sequence 17, Appl	614	26	56.5	328	9	US-10-988-207-23	Sequence 23, Appl
542	26	56.5	326	11	US-11-102-621-18	Sequence 18, Appl	615	26	56.5	329	11	US-11-112-622-100	Sequence 100, App
543	26	56.5	326	11	US-11-102-621-19	Sequence 19, Appl	616	26	56.5	329	11	US-11-186-422-4	Sequence 4, Appl
544	26	56.5	326	11	US-11-102-621-20	Sequence 20, Appl	617	26	56.5	329	11	US-11-149-309-17	Sequence 17, Appl
545	26	56.5	326	11	US-11-102-621-21	Sequence 21, Appl	618	26	56.5	329	11	US-11-190-202-14	Sequence 14, Appl
546	26	56.5	326	11	US-11-102-621-22	Sequence 22, Appl	619	26	56.5	329	11	US-11-190-202-16	Sequence 16, App
547	26	56.5	326	11	US-11-102-621-23	Sequence 23, Appl	620	26	56.5	329	11	US-11-155-843-128	Sequence 128, App
548	26	56.5	326	11	US-11-102-621-24	Sequence 24, Appl	621	26	56.5	329	11	US-11-155-843-141	Sequence 141, App
549	26	56.5	326	11	US-11-102-621-25	Sequence 25, Appl	622	26	56.5	330	9	US-10-686-183-6	Sequence 6, Appl
550	26	56.5	326	11	US-11-102-621-26	Sequence 26, Appl	623	26	56.5	330	9	US-10-493-909-20	Sequence 20, Appl
551	26	56.5	326	11	US-11-102-621-27	Sequence 27, Appl	624	26	56.5	330	9	US-10-982-440-68	Sequence 68, Appl
552	26	56.5	326	11	US-11-102-621-28	Sequence 28, Appl	625	26	56.5	330	10	US-11-219-563-136	Sequence 136, App
553	26	56.5	326	11	US-11-102-621-29	Sequence 29, Appl	626	26	56.5	330	10	US-11-221-902-25	Sequence 25, Appl
554	26	56.5	326	11	US-11-102-621-30	Sequence 30, Appl	627	26	56.5	330	10	US-11-221-902-85	Sequence 85, Appl
555	26	56.5	326	11	US-11-102-621-31	Sequence 31, Appl	628	26	56.5	330	10	US-11-221-902-86	Sequence 86, Appl
556	26	56.5	326	11	US-11-102-621-32	Sequence 32, Appl	629	26	56.5	330	10	US-11-221-902-87	Sequence 87, Appl
557	26	56.5	326	11	US-11-102-621-33	Sequence 33, Appl	630	26	56.5	330	10	US-11-221-902-88	Sequence 88, Appl
558	26	56.5	326	11	US-11-102-621-34	Sequence 34, Appl	631	26	56.5	330	10	US-11-221-902-89	Sequence 89, Appl
559	26	56.5	326	11	US-11-102-621-35	Sequence 35, Appl	632	26	56.5	330	11	US-11-022-289-11	Sequence 11, Appl
560	26	56.5	326	11	US-11-102-621-36	Sequence 36, Appl	633	26	56.5	330	11	US-11-022-289-11	Sequence 11, Appl
561	26	56.5	326	11	US-11-102-621-37	Sequence 37, Appl	634	26	56.5	330	11	US-11-075-351-1	Sequence 15, Appl
562	26	56.5	326	11	US-11-102-621-38	Sequence 38, Appl	635	26	56.5	330	11	US-11-165-141-15	Sequence 7, Appl
563	26	56.5	326	11	US-11-102-621-39	Sequence 39, Appl	636	26	56.5	330	11	US-11-102-621-3	Sequence 3, Appl
564	26	56.5	326	11	US-11-102-621-40	Sequence 40, Appl	637	26	56.5	330	11	US-11-102-621-7	Sequence 7, Appl
565	26	56.5	326	11	US-11-102-621-41	Sequence 41, Appl	638	26	56.5	330	11	US-11-102-621-67	Sequence 67, Appl
566	26	56.5	326	11	US-11-102-621-42	Sequence 42, Appl	639	26	56.5	330	11	US-11-102-621-68	Sequence 68, Appl
567	26	56.5	326	11	US-11-102-621-43	Sequence 43, Appl	640	26	56.5	330	11	US-11-102-621-69	Sequence 69, Appl
568	26	56.5	326	11	US-11-102-621-44	Sequence 44, Appl	641	26	56.5	330	11	US-11-102-621-70	Sequence 70, Appl
569	26	56.5	326	11	US-11-102-621-45	Sequence 45, Appl	642	26	56.5	330	11	US-11-102-621-71	Sequence 71, Appl
570	26	56.5	326	11	US-11-102-621-46	Sequence 46, Appl	643	26	56.5	330	11	US-11-102-621-75	Sequence 75, Appl
571	26	56.5	326	11	US-11-102-621-47	Sequence 47, Appl	644	26	56.5	330	11	US-11-102-621-76	Sequence 76, Appl
572	26	56.5	326	11	US-11-102-621-48	Sequence 48, Appl	645	26	56.5	330	11	US-11-005-726-164	Sequence 164, App
573	26	56.5	326	11	US-11-102-621-49	Sequence 49, Appl	646	26	56.5	330	11	US-11-124-620-1	Sequence 1, Appl
574	26	56.5	326	11	US-11-102-621-50	Sequence 50, Appl	647	26	56.5	330	11	US-11-233-683-1	Sequence 1, Appl
575	26	56.5	326	11	US-11-102-621-51	Sequence 51, Appl	648	26	56.5	330	11	US-11-801-825-55	Sequence 55, Appl
576	26	56.5	326	11	US-11-102-621-52	Sequence 52, Appl	649	26	56.5	330	11	US-11-218-813-136	Sequence 136, App
577	26	56.5	326	11	US-11-102-621-53	Sequence 53, Appl	650	26	56.5	330	11	US-11-188-298-18370	Sequence 8831, Ap
578	26	56.5	326	11	US-11-102-621-54	Sequence 54, Appl	651	26	56.5	331	11	US-11-188-298-8831	Sequence 88, Appl
579	26	56.5	326	11	US-11-102-621-55	Sequence 55, Appl	652	26	56.5	332	11	US-11-242-294-62	Sequence 98, Appl
580	26	56.5	326	11	US-11-102-621-56	Sequence 56, Appl	653	26	56.5	332	11	US-11-122-622-98	Sequence 21801, A
581	26	56.5	326	11	US-11-102-621-57	Sequence 57, Appl	654	26	56.5	332	11	US-11-188-298-21801	Sequence 35, Appl
582	26	56.5	326	11	US-11-102-621-58	Sequence 58, Appl	655	26	56.5	333	11	US-11-024-251-35	Sequence 35, Appl
583	26	56.5	326	11	US-11-102-621-59	Sequence 59, Appl	656	26	56.5	333	9	US-10-999-866-35	Sequence 66, Appl
584	26	56.5	326	11	US-11-102-621-60	Sequence 60, Appl	657	26	56.5	339	9	US-10-935-005B-66	Sequence 35, Appl
585	26	56.5	326	11	US-11-102-621-61	Sequence 61, Appl	658	26	56.5	339	10	US-11-091-234A-35	Sequence 35, Appl
586	26	56.5	326	11	US-11-102-621-62	Sequence 62, Appl	659	26	56.5	339	11	US-11-061-821-35	Sequence 52, Appl
587	26	56.5	326	11	US-11-102-621-63	Sequence 63, Appl	660	26	56.5	344	11	US-11-242-294-52	Sequence 15, Appl
588	26	56.5	326	11	US-11-102-621-64	Sequence 64, Appl	661	26	56.5	344	11	US-11-190-202-15	Sequence 17, Appl
589	26	56.5	326	11	US-11-102-621-65	Sequence 65, Appl	662	26	56.5	344	11	US-11-190-202-17	Sequence 17, Appl
590	26	56.5	326	11	US-11-102-621-66	Sequence 66, Appl	663	26	56.5	346	9	US-10-506-454-286	Sequence 286, App
591	26	56.5	326	11	US-11-102-621-67	Sequence 67, Appl	664	26	56.5	346	11	US-11-197-038-35	Sequence 35, Appl
592	26	56.5	326	11	US-11-102-621-72	Sequence 72, Appl	665	26	56.5	346	11	US-11-301-885-7	Sequence 7, Appl
593	26	56.5	326	11	US-11-102-621-73	Sequence 73, Appl	666	26	56.5	346	11	US-11-202-687-6	Sequence 6, Appl
594	26	56.5	326	11	US-11-144-222-78	Sequence 74, Appl	667	26	56.5	346	11	US-11-197-644-35	Sequence 35, Appl
595	26	56.5	326	11	US-11-182-343-28	Sequence 28, Appl	668	26	56.5	347	11	US-11-235-776A-5	Sequence 5, Appl
596	26	56.5	326	11	US-11-124-620-2	Sequence 2, Appl	669	26	56.5	347	11	US-11-188-298-4517	Sequence 4517, Ap
597	26	56.5	326	11	US-11-233-683-2	Sequence 2, Appl	670	26	56.5	347	11	US-11-242-294-54	Sequence 54, Appl
598	26	56.5	327	9	US-10-512-184-62	Sequence 62, Appl	671	26	56.5	349	11	US-11-235-776A-13	Sequence 13, Appl
599	26	56.5	327	9	US-10-512-184-64	Sequence 64, Appl	672	26	56.5	349	11	US-11-075-047A-34	Sequence 34, Appl
600	26	56.5	327	9	US-10-999-866-38	Sequence 38, Appl	673	26	56.5	352	11	US-11-051-120-1325	Sequence 1325, Ap
601	26	56.5	327	9	US-10-988-207-22	Sequence 22, Appl	674	26	56.5	352	11	US-11-051-120-1324	Sequence 1324, Ap
602	26	56.5	327	9	US-10-493-909-26	Sequence 26, Appl	675	26	56.5	354	11	US-11-242-294-56	Sequence 56, Appl
603	26	56.5	327	10	US-10-933-005B-69	Sequence 69, Appl	676	26	56.5	357	11	US-11-242-294-56	Sequence 9321, Ap
604	26	56.5	327	9	US-11-091-234A-38	Sequence 38, Appl	677	26	56.5	360	11	US-11-188-298-9321	Sequence 9321, Ap
605	26	56.5	327	10	US-11-221-902-24	Sequence 24, Appl	678	26	56.5	361	9	US-10-995-561-612	Sequence 612, App

679	26	56.5	361	11	US-11-130-206-6	Sequence 6, Appl1	752	26	56.5	438	11	US-11-197-038-34	Sequence 34, Appl1
680	26	56.5	362	11	US-11-233-683-3	Sequence 3, Appl1	753	26	56.5	439	11	US-11-197-644-34	Sequence 33, Appl1
681	26	56.5	363	11	US-11-051-720-1326	Sequence 1326, Ap	754	26	56.5	439	11	US-11-197-038-33	Sequence 32, Appl1
682	26	56.5	364	11	US-11-188-298-8651	Sequence 8651, Ap	755	26	56.5	439	11	US-11-079-463-5647	Sequence 5647, Ap
683	26	56.5	365	11	US-11-188-298-19254	Sequence 19254, A	756	26	56.5	439	11	US-11-197-644-33	Sequence 33, Appl1
684	26	56.5	366	11	US-11-128-900-100	Sequence 100, App	757	26	56.5	440	11	US-11-079-463-6131	Sequence 6131, Ap
685	26	56.5	368	11	US-11-075-047A-32	Sequence 22, Appl1	758	26	56.5	440	11	US-11-166-466-2	Sequence 2, Appl1
686	26	56.5	370	11	US-11-075-047A-18	Sequence 18, Appl1	759	26	56.5	442	9	US-10-487-324A-12	Sequence 12, Appl1
687	26	56.5	370	11	US-11-096-568A-15423	Sequence 15423, A	760	26	56.5	442	9	US-10-487-324A-21	Sequence 21, Appl1
688	26	56.5	370	11	US-11-201-585-8	Sequence 8, Appl1	761	26	56.5	442	11	US-11-102-621-124	Sequence 124, App
689	26	56.5	371	11	US-11-075-047A-30	Sequence 30, Appl1	762	26	56.5	442	11	US-11-102-621-125	Sequence 125, App
690	26	56.5	372	11	US-11-075-047A-56	Sequence 56, Appl1	763	26	56.5	442	11	US-11-102-621-126	Sequence 126, App
691	26	56.5	374	11	US-11-075-047A-34	Sequence 34, Appl1	764	26	56.5	442	11	US-11-102-621-127	Sequence 127, App
692	26	56.5	375	11	US-11-075-047A-54	Sequence 54, Appl1	765	26	56.5	442	11	US-11-102-621-128	Sequence 128, App
693	26	56.5	376	11	US-11-075-047A-46	Sequence 46, Appl1	766	26	56.5	442	11	US-11-124-623-12	Sequence 12, Appl1
694	26	56.5	377	9	US-10-999-866-37	Sequence 37, Appl1	767	26	56.5	442	11	US-11-194-989-11	Sequence 11, Appl1
695	26	56.5	377	9	US-10-493-909-24	Sequence 24, Appl1	768	26	56.5	444	11	US-11-197-207-61	Sequence 61, Appl1
696	26	56.5	377	9	US-10-935-005B-68	Sequence 68, Appl1	769	26	56.5	444	11	US-11-172-330-6	Sequence 6, Appl1
697	26	56.5	377	10	US-11-091-234A-37	Sequence 37, Appl1	770	26	56.5	444	11	US-11-029-003-16	Sequence 16, Appl1
698	26	56.5	377	11	US-11-055-822-448	Sequence 448, App	771	26	56.5	444	11	US-11-173-969-6	Sequence 6, Appl1
699	26	56.5	377	11	US-11-061-821-37	Sequence 37, Appl1	772	26	56.5	444	11	US-11-004-580-232	Sequence 232, App
700	26	56.5	377	11	US-11-102-621-113	Sequence 113, App	773	26	56.5	444	11	US-11-004-580-233	Sequence 233, App
701	26	56.5	377	11	US-11-102-621-115	Sequence 115, App	774	26	56.5	445	11	US-11-226-859-473	Sequence 473, App
702	26	56.5	377	11	US-11-124-620-3	Sequence 3, Appl1	775	26	56.5	446	11	US-11-102-621-119	Sequence 119, App
703	26	56.5	377	11	US-11-267-310-55	Sequence 55, Appl1	776	26	56.5	446	11	US-11-102-621-120	Sequence 120, App
704	26	56.5	377	11	US-11-096-568A-28740	Sequence 28740, A	777	26	56.5	446	11	US-11-102-621-121	Sequence 121, App
705	26	56.5	377	11	US-11-267-191-55	Sequence 55, Appl1	778	26	56.5	446	11	US-11-102-621-122	Sequence 122, App
706	26	56.5	378	11	US-11-201-825-60	Sequence 60, Appl1	779	26	56.5	446	11	US-11-102-621-123	Sequence 123, App
707	26	56.5	378	11	US-11-096-568A-8228	Sequence 8228, Ap	780	26	56.5	446	11	US-11-102-621-136	Sequence 136, App
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## ALIGNMENTS

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; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
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; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
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; GENERAL INFORMATION:
; APPLICANT: Casaccia, Maria C.
; APPLICANT: Smith, Larry
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; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/1004137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 18
US-10-530-253-15

Query Match 100.0%; Score 46; DB 9; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.04;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
RESULT 3
US-10-530-061-55
; Sequence 55, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 55
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-55
```

```
QY 1 LDDIETCV 9
Db 1 LDDIETCV 9

Query Match 87.0%; Score 40; DB 9; Length 10;
Best Local Similarity 88.9%; Pred. No. 0.037;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
RESULT 4
US-10-530-061-112
; Sequence 112, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
```

```
APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 112
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-112
```

```
Query Match      87.0%; Score 40; DB 9; Length 10;
Best Local Similarity 88.9%; Pred. No. 0.037;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 LODIETCV 9
   |||||
Db 1 LTDIETCV 9
```

```
RESULT 5
US-10-530-061-517
; Sequence 517, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 517
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-517
```

```
Query Match      80.4%; Score 37; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 3 DIETCV 9
   |||||
Db 1 DIETCV 7
```

```
RESULT 6
US-10-530-253-19
; Sequence 19, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
```

```
FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 19
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 39
US-10-530-253-19
```

```
Query Match      76.1%; Score 35; DB 9; Length 158;
Best Local Similarity 77.8%; Pred. No. 6.8;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 LODIETCV 9
   |||||
Db 25 LODIETCV 33
```

```
RESULT 7
US-10-530-253-20
; Sequence 20, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 20
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 45
US-10-530-253-20
```

```
Query Match      76.1%; Score 35; DB 9; Length 158;
Best Local Similarity 66.7%; Pred. No. 6.8;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 LODIETCV 9
   |||||
Db 25 LODIETCV 33
```

```
RESULT 8
US-11-168-298-1612
; Sequence 1612, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/168,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 1612
; LENGTH: 673
```

```
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-11-188-298-1612

Query Match
Best Local Similarity 76.1%; Score 35; DB 11; Length 673;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LODIETC 8
DB 408 LNDVETC 415

RESULT 9
US-11-087-099-4671
; Sequence 4671, Application US/11087099
; Publication No. US2006004196A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 4671
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Phlebia radiata
US-11-087-099-4671

Query Match
Best Local Similarity 73.9%; Score 34; DB 11; Length 390;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 QDIETC 8
DB 337 QDIETC 343

RESULT 10
US-11-155-288-8
; Sequence 8, Application US/11155288
; Publication No. US20060008468A1
; GENERAL INFORMATION:
; APPLICANT: Chiang, Chih-Sheng
; APPLICANT: Simard, John J. L.
; TITLE OF INVENTION: COMBINATIONS OF TUMOR-ASSOCIATED
; TITLE OF INVENTION: ANTIGENS IN DIAGNOSTICS FOR VARIOUS TYPES OF CANCERS
; FILE REFERENCE: MANK.050A
; CURRENT APPLICATION NUMBER: US/11/155,288
; CURRENT FILING DATE: 2005-06-17
; PRIOR APPLICATION NUMBER: 60/580,969
; PRIOR FILING DATE: 2004-06-17
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-155-288-8

Query Match
Best Local Similarity 73.9%; Score 34; DB 11; Length 509;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 LODIETC 8
DB 235 IEDLEVTC 242

RESULT 11
US-10-329-258-27
; Sequence 27, Application US/10329258
```

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```
; Publication No. US2006002423A1
; GENERAL INFORMATION:
; APPLICANT: MOELLER, SABINE
; APPLICANT: GONZALEZ-ZOLUETA, MIRELLA
; APPLICANT: FOEHR, ERIK
; APPLICANT: CHIN, DANIEL J.
; TITLE OF INVENTION: USE OF BIOMOLECULAR TARGETS IN THE TREATMENT AND VISUALIZATION OF
; FILE REFERENCE: AGYT-008052
; CURRENT APPLICATION NUMBER: US/10/329,258
; CURRENT FILING DATE: 2002-12-23
; PRIOR APPLICATION NUMBER: 60/343,422
; PRIOR FILING DATE: 2001-12-27
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 27
; LENGTH: 366
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-329-258-27

Query Match
Best Local Similarity 71.7%; Score 33; DB 9; Length 366;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LODIETC 8
DB 124 LODIETC 131

RESULT 12
US-11-000-463-410
; Sequence 410, Application US/11000463
; Publication No. US20050266423A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Chen, Rui-hong
; APPLICANT: Qian, Xiaohong B.
; APPLICANT: Wang, Zhilwei
; APPLICANT: Wehrman, Tom
; APPLICANT: Zhou, Ping
; APPLICANT: Cao, Yi-Cheng
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides
; FILE REFERENCE: 785CIP4CN
; CURRENT APPLICATION NUMBER: US/11/000,463
; CURRENT FILING DATE: 2004-11-29
; PRIOR APPLICATION NUMBER: 10/291,265
; PRIOR FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: PCT/US01/02623
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 09/922,279
; PRIOR FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: 09/491,404
; PRIOR FILING DATE: 2000-01-25
; PRIOR APPLICATION NUMBER: 09/617,746
; PRIOR FILING DATE: 2000-07-17
; PRIOR APPLICATION NUMBER: 09/631,451
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: 09/633,870
; PRIOR FILING DATE: 2000-09-15
; NUMBER OF SEQ ID NOS: 944
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 410
; LENGTH: 366
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-000-463-410

Query Match
Best Local Similarity 71.7%; Score 33; DB 11; Length 366;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LODIETC 8  
|||:|

Db 124 LODLENTC 131

## RESULT 13

US-11-000-463-882

Sequence 882, Application US/11000463  
Publication No. US2005026423A1

GENERAL INFORMATION:

APPLICANT: Tang, Y Tom

APPLICANT: Liu, Chenghua

APPLICANT: Asundi, Vinod

APPLICANT: Chen, Rui-hong

APPLICANT: Qian, Xiaohong B.

APPLICANT: Wang, Zhiwei

APPLICANT: Wehrman, Tom

APPLICANT: Zhang, Jie

APPLICANT: Zhou, Ping

APPLICANT: Cao, Yi-Cheng

APPLICANT: Drmanac, Radoje T.

TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides

FILE REFERENCE: 785CIP4CN

CURRENT APPLICATION NUMBER: US/11/000,463

PRIOR FILING DATE: 2004-11-29

PRIOR APPLICATION NUMBER: 10/291,265

PRIOR FILING DATE: 2002-11-08

PRIOR APPLICATION NUMBER: PCT/US01/02623

PRIOR FILING DATE: 2001-01-25

PRIOR APPLICATION NUMBER: 09/922,279

PRIOR FILING DATE: 2001-08-03

PRIOR APPLICATION NUMBER: 09/491,404

PRIOR FILING DATE: 2000-01-25

PRIOR APPLICATION NUMBER: 09/617,746

PRIOR FILING DATE: 2000-07-17

PRIOR APPLICATION NUMBER: 09/631,451

PRIOR FILING DATE: 2000-08-03

PRIOR APPLICATION NUMBER: 09/633,870

PRIOR FILING DATE: 2000-09-15

NUMBER OF SEQ ID NOS: 944

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 882

LENGTH: 366

TYPE: PRT

ORGANISM: Homo sapiens

US-11-000-463-882

Query Match: 71.7%; Score 33; DB 11; Length 366;

Best Local Similarity 75.0%; Pred. No. 41;

Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LODIETC 8  
|||:|

Db 124 LODLENTC 131

RESULT 14  
US-11-188-298-2647

Sequence 2647, Application US/11188298

Publication No. US2006007552A1

GENERAL INFORMATION:

APPLICANT: Abad, Mark S. et al.

TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT

FILE REFERENCE: 38-21(53452)B

CURRENT APPLICATION NUMBER: US/11/188,298

PRIOR FILING DATE: 2005-07-22

PRIOR APPLICATION NUMBER: 60/592,978

PRIOR FILING DATE: 2004-07-31

NUMBER OF SEQ ID NOS: 22569

SEQ ID NO 2647

LENGTH: 633

TYPE: PRT

ORGANISM: Clostridium tetani E88

US-11-188-298-2647

Query Match: 71.7%; Score 33; DB 11; Length 633;

Best Local Similarity 50.0%; Pred. No. 73;

Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LODIETC 8  
|||:|

Db 167 IEDIDVTC 174

## RESULT 15

US-11-096-568A-22480

Sequence 22480, Application US/11096568A

Publication No. US20060048240A1

GENERAL INFORMATION:

APPLICANT: Alexandrov, Nikolai et al.

TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptide

FILE REFERENCE: 2750-1592PUS2

CURRENT APPLICATION NUMBER: US/11/096,568A

PRIOR FILING DATE: 2005-04-01

NUMBER OF SEQ ID NOS: 34471

SEQ ID NO 22480

LENGTH: 210

TYPE: PRT

ORGANISM: Zea mays subsp. mays

NAME/KEY: misc. feature

LOCATION: (1)..(210)

OTHER INFORMATION: Ceres Seq. ID no. 12408970

US-11-096-568A-22480

Query Match: 69.6%; Score 32; DB 11; Length 210;

Best Local Similarity 75.0%; Pred. No. 37;

Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LODIETC 8  
|||:|

Db 156 LRDIETLC 163

## RESULT 16

US-11-096-568A-22479

Sequence 22479, Application US/11096568A

Publication No. US20060048240A1

GENERAL INFORMATION:

APPLICANT: Alexandrov, Nikolai et al.

TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptide

FILE REFERENCE: 2750-1592PUS2

CURRENT APPLICATION NUMBER: US/11/096,568A

PRIOR FILING DATE: 2005-04-01

NUMBER OF SEQ ID NOS: 34471

SEQ ID NO 22479

LENGTH: 243

TYPE: PRT

ORGANISM: Zea mays subsp. mays

NAME/KEY: misc. feature

LOCATION: (1)..(243)

OTHER INFORMATION: Ceres Seq. ID no. 12408969

US-11-096-568A-22479

Query Match: 69.6%; Score 32; DB 11; Length 243;

Best Local Similarity 75.0%; Pred. No. 43;

Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LODIETC 8  
|||:|

Db 189 LRDIETLC 196

```
RESULT 17
US-11-096-568A-22478
; Sequence 22478, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 22478
; LENGTH: 304
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(304)
; OTHER INFORMATION: Ceres Seq. ID no. 12408968
US-11-096-568A-22478

Query Match      69.6%; Score 32; DB 11; Length 304;
Best Local Similarity 75.0%; Pred. No. 54;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 LODIEITC 8
Db      250 LRDIETLC 257

RESULT 18
US-11-096-568A-19986
; Sequence 19986, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 19986
; LENGTH: 306
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(306)
; OTHER INFORMATION: Ceres Seq. ID no. 12376375
US-11-096-568A-19986

Query Match      69.6%; Score 32; DB 11; Length 306;
Best Local Similarity 75.0%; Pred. No. 55;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 LODIEITC 8
Db      213 LRDIETLC 220

RESULT 19
US-11-096-568A-19985
; Sequence 19985, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
```

```
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 19985
; LENGTH: 307
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(307)
; OTHER INFORMATION: Ceres Seq. ID no. 12376374
US-11-096-568A-19985

Query Match      69.6%; Score 32; DB 11; Length 307;
Best Local Similarity 75.0%; Pred. No. 55;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 LODIEITC 8
Db      214 LRDIETLC 221

RESULT 20
US-11-096-568A-19984
; Sequence 19984, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 19984
; LENGTH: 314
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(314)
; OTHER INFORMATION: Ceres Seq. ID no. 12376373
US-11-096-568A-19984

Query Match      69.6%; Score 32; DB 11; Length 314;
Best Local Similarity 75.0%; Pred. No. 56;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 LODIEITC 8
Db      221 LRDIETLC 228

RESULT 21
US-11-096-568A-5396
; Sequence 5396, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 5396
; LENGTH: 322
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(322)
; OTHER INFORMATION: Ceres Seq. ID no. 14308682
```



US-11-096-568A-5396

Query Match  
 Best Local Similarity 69.6%; Score 32; DB 11; Length 322;  
 Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LODIETC 8  
 DB 214 LRDIETLC 221

RESULT 22

US-11-096-568A-5395  
 ; Sequence 5395, Application US/11096568A  
 ; Publication No. US20060048240A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Alexandrov, Nikolai et al.  
 ; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
 ; FILE REFERENCE: 2750-1592PUS2  
 ; CURRENT APPLICATION NUMBER: US/11/096,568A  
 ; CURRENT FILING DATE: 2005-04-01  
 ; NUMBER OF SEQ ID NOS: 34471  
 ; SEQ ID NO 5395  
 ; LENGTH: 329  
 ; TYPE: PRT  
 ; ORGANISM: Glycine max  
 ; FEATURE:  
 ; NAME/KEY: misc\_feature  
 ; LOCATION: (1)..(329)  
 ; OTHER INFORMATION: Ceres Seq. ID no. 14308681  
 US-11-096-568A-5395

Query Match  
 Best Local Similarity 75.0%; Score 32; DB 11; Length 329;  
 Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LODIETC 8  
 DB 221 LRDIETLC 228

RESULT 23

US-11-096-568A-5394  
 ; Sequence 5394, Application US/11096568A  
 ; Publication No. US20060048240A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Alexandrov, Nikolai et al.  
 ; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
 ; FILE REFERENCE: 2750-1592PUS2  
 ; CURRENT APPLICATION NUMBER: US/11/096,568A  
 ; CURRENT FILING DATE: 2005-04-01  
 ; NUMBER OF SEQ ID NOS: 34471  
 ; SEQ ID NO 5394  
 ; LENGTH: 339  
 ; TYPE: PRT  
 ; ORGANISM: Glycine max  
 ; FEATURE:  
 ; NAME/KEY: misc\_feature  
 ; LOCATION: (1)..(339)  
 ; OTHER INFORMATION: Ceres Seq. ID no. 14308680  
 US-11-096-568A-5394

Query Match  
 Best Local Similarity 69.6%; Score 32; DB 11; Length 339;  
 Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LODIETC 8  
 DB 231 LRDIETLC 238

RESULT 24

US-10-530-253-25  
 ; Sequence 25, Application US/10530253  
 ; Publication No. US20060014926A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Casaretti, Maria C.  
 ; APPLICANT: Smith, Larry  
 ; APPLICANT: Jeffrey K. Pullen  
 ; APPLICANT: Susan P. McElhinney  
 ; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
 ; FILE REFERENCE: 00630/100M137-US2  
 ; CURRENT APPLICATION NUMBER: US/10/530,253  
 ; CURRENT FILING DATE: 2005-04-04  
 ; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
 ; PRIOR FILING DATE: 2003-10-02  
 ; PRIOR APPLICATION NUMBER: US 60/415,929  
 ; PRIOR FILING DATE: 2002-10-03  
 ; NUMBER OF SEQ ID NOS: 65  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 25  
 ; LENGTH: 160  
 ; TYPE: PRT  
 ; ORGANISM: Human papillomavirus type 59  
 US-10-530-253-25

Query Match  
 Best Local Similarity 67.4%; Score 31; DB 9; Length 160;  
 Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 LODIETCV 9  
 DB 25 LHDIRINCV 33

RESULT 25

US-11-188-298-17365  
 ; Sequence 17365, Application US/11188298  
 ; Publication No. US20060075522A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Abad, Mark S. et al.  
 ; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
 ; FILE REFERENCE: 38-21(53452)B  
 ; CURRENT APPLICATION NUMBER: US/11/188,298  
 ; CURRENT FILING DATE: 2005-07-22  
 ; PRIOR APPLICATION NUMBER: 60/592,978  
 ; PRIOR FILING DATE: 2004-07-31  
 ; NUMBER OF SEQ ID NOS: 22569  
 ; SEQ ID NO 17365  
 ; LENGTH: 285  
 ; TYPE: PRT  
 ; ORGANISM: Petunia x hybrida  
 US-11-188-298-17365

Query Match  
 Best Local Similarity 67.4%; Score 31; DB 11; Length 285;  
 Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 ODIEITCV 9  
 DB 84 QDVQOTCV 91

RESULT 26

US-11-188-298-19258  
 ; Sequence 19258, Application US/11188298  
 ; Publication No. US20060075522A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Abad, Mark S. et al.  
 ; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
 ; FILE REFERENCE: 38-21(53452)B  
 ; CURRENT APPLICATION NUMBER: US/11/188,298  
 ; CURRENT FILING DATE: 2005-07-22  
 ; PRIOR APPLICATION NUMBER: 60/592,978

PRIOR FILING DATE: 2004-07-31  
NUMBER OF SEQ ID NOS: 22569  
SEQ ID NO 19258  
LENGTH: 328  
TYPE: PRT  
ORGANISM: Neisseria meningitidis  
US-11-188-298-19258

Query Match 67.4%; Score 31; DB 11; Length 328;  
Best Local Similarity 44.4%; Pred. No. 94;  
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LQDIETCV 9  
Db 283 LQDLQIACL 291

RESULT 27  
US-11-096-568A-10573  
Sequence 10573, Application US/11096568A  
Publication No. US20060048240A1  
GENERAL INFORMATION:  
APPLICANT: Alexandrov, Nickolai et al.  
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
FILE REFERENCE: 2750-1592PUS2  
CURRENT APPLICATION NUMBER: US/11/096,568A  
CURRENT FILING DATE: 2005-04-01  
NUMBER OF SEQ ID NOS: 34471  
SEQ ID NO 10573  
LENGTH: 331  
TYPE: PRT  
ORGANISM: Triticum aestivum  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (1)-(331)  
OTHER INFORMATION: Ceres Seq. ID no. 13596495  
US-11-096-568A-10573

Query Match 67.4%; Score 31; DB 11; Length 331;  
Best Local Similarity 62.5%; Pred. No. 95;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LQDIETC 8  
Db 208 LRDEILC 215

RESULT 28  
US-11-096-568A-10572  
Sequence 10572, Application US/11096568A  
Publication No. US20060048240A1  
GENERAL INFORMATION:  
APPLICANT: Alexandrov, Nickolai et al.  
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
FILE REFERENCE: 2750-1592PUS2  
CURRENT APPLICATION NUMBER: US/11/096,568A  
CURRENT FILING DATE: 2005-04-01  
NUMBER OF SEQ ID NOS: 34471  
SEQ ID NO 10572  
LENGTH: 338  
TYPE: PRT  
ORGANISM: Triticum aestivum  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (1)-(338)  
OTHER INFORMATION: Ceres Seq. ID no. 13596494  
US-11-096-568A-10572

Query Match 67.4%; Score 31; DB 11; Length 338;  
Best Local Similarity 62.5%; Pred. No. 97;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LQDIETC 8  
Db 215 LRDEILC 222

RESULT 29  
US-11-096-568A-10571  
Sequence 10571, Application US/11096568A  
Publication No. US20060048240A1  
GENERAL INFORMATION:  
APPLICANT: Alexandrov, Nickolai et al.  
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
FILE REFERENCE: 2750-1592PUS2  
CURRENT APPLICATION NUMBER: US/11/096,568A  
CURRENT FILING DATE: 2005-04-01  
NUMBER OF SEQ ID NOS: 34471  
SEQ ID NO 10571  
LENGTH: 381  
TYPE: PRT  
ORGANISM: Triticum aestivum  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (1)-(381)  
OTHER INFORMATION: Ceres Seq. ID no. 13596493  
US-11-096-568A-10571

Query Match 67.4%; Score 31; DB 11; Length 381;  
Best Local Similarity 62.5%; Pred. No. 1,1e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LQDIETC 8  
Db 258 LRDEILC 265

RESULT 30  
US-11-087-099-1194  
Sequence 1194, Application US/11087099  
Publication No. US20060041961A1  
GENERAL INFORMATION:  
APPLICANT: Abad, Mark S. et al.  
TITLE OF INVENTION: Genes and Uses for Plant Improvement  
FILE REFERENCE: 38-21(53450)B EP  
CURRENT APPLICATION NUMBER: US/11/087,099  
CURRENT FILING DATE: 2005-03-22  
NUMBER OF SEQ ID NOS: 12464  
SEQ ID NO 1194  
LENGTH: 387  
TYPE: PRT  
ORGANISM: Cerioperopsis subvermispora  
US-11-087-099-1194

Query Match 67.4%; Score 31; DB 11; Length 387;  
Best Local Similarity 57.1%; Pred. No. 1,1e+02;  
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 2 QDIETC 8  
Db 338 QDLQILC 344

RESULT 31  
US-11-087-099-9326  
Sequence 9326, Application US/11087099  
Publication No. US20060041961A1  
GENERAL INFORMATION:  
APPLICANT: Abad, Mark S. et al.  
TITLE OF INVENTION: Genes and Uses for Plant Improvement  
FILE REFERENCE: 38-21(53450)B EP  
CURRENT APPLICATION NUMBER: US/11/087,099  
CURRENT FILING DATE: 2005-03-22

NUMBER OF SEQ ID NOS: 12464  
SEQ ID NO 9326  
LENGTH: 387  
TYPE: PRT  
ORGANISM: Ceriporiopsis subvermisporea  
US-11-087-099-9326

Query Match 67.4%; Score 31; DB 11; Length 387;  
Best Local Similarity 57.1%; Pred. No. 1.1e+02;  
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 2 QDIETIC 8  
DB 338 QDIQLTC 344

RESULT 32  
US-11-087-099-10451  
Sequence 10451, Application US/11087099  
Publication No. US20060041961A1  
GENERAL INFORMATION:  
APPLICANT: Abad, Mark S. et al.  
TITLE OF INVENTION: Genes and Uses for Plant Improvement  
FILE REFERENCE: 38-21(53450)B BP  
CURRENT APPLICATION NUMBER: US/11/087,099  
CURRENT FILING DATE: 2005-03-22  
NUMBER OF SEQ ID NOS: 12464  
SEQ ID NO 10451  
LENGTH: 387  
TYPE: PRT  
ORGANISM: Ceriporiopsis subvermisporea  
US-11-087-099-10451

Query Match 67.4%; Score 31; DB 11; Length 387;  
Best Local Similarity 57.1%; Pred. No. 1.1e+02;  
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 2 QDIETIC 8  
DB 338 QDIQLTC 344

RESULT 33  
US-10-506-454-444  
Sequence 444, Application US/10506454  
Publication No. US20060068386A1  
GENERAL INFORMATION:  
APPLICANT: Slesarev, Alexi I  
APPLICANT: Mezhevaia, Katja V  
APPLICANT: Polushin, Nikolai N  
APPLICANT: Shcherbina, Olga V  
APPLICANT: Shakhova, Vera V  
APPLICANT: Malykh, Andrei G  
APPLICANT: Kozayavkin, Sergei A  
TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile  
TITLE OF INVENTION: Methanopyrus kandleri AV19 and Monophyly of Archaeal Methanogens  
TITLE OF INVENTION: and Methods of Use Thereof  
FILE REFERENCE: FID001  
CURRENT APPLICATION NUMBER: US/10/506,454  
CURRENT FILING DATE: 2004-08-31  
PRIOR APPLICATION NUMBER: PCT/US03/06664  
PRIOR FILING DATE: 2003-03-04  
PRIOR APPLICATION NUMBER: 60/361,742  
PRIOR FILING DATE: 2002-03-04  
NUMBER OF SEQ ID NOS: 1722  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO 444  
LENGTH: 452  
TYPE: PRT  
ORGANISM: Methanopyrus kandleri  
US-10-506-454-444

Query Match 67.4%; Score 31; DB 9; Length 452;

Best Local Similarity 71.4%; Pred. No. 1.3e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 DIETICV 9  
DB 281 EIELTCV 287

RESULT 34  
US-10-517-939-286  
Sequence 286, Application US/10517939  
Publication No. US2006000343A1  
GENERAL INFORMATION:  
APPLICANT: Steer, Brian  
APPLICANT: Callen, Walter  
APPLICANT: Healey, Shaun  
APPLICANT: Hazlewood, Geoff  
APPLICANT: Wu, Di  
APPLICANT: Blum, David  
APPLICANT: Reteghalian, Alireza  
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING THEM  
TITLE OF INVENTION: AND METHODS FOR MAKING AND USING THEM  
FILE REFERENCE: 564462007901  
CURRENT APPLICATION NUMBER: US/10/517,939  
CURRENT FILING DATE: 2004-12-13  
PRIOR APPLICATION NUMBER: PCT/US03/19153  
PRIOR FILING DATE: 2003-06-16  
PRIOR APPLICATION NUMBER: 60/389,299  
PRIOR FILING DATE: 2002-06-14  
NUMBER OF SEQ ID NOS: 380  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 286  
LENGTH: 522  
TYPE: PRT  
ORGANISM: Unknown  
FEATURE:  
OTHER INFORMATION: Obtained from an environmental sample.  
US-10-517-939-286

Query Match 67.4%; Score 31; DB 9; Length 522;  
Best Local Similarity 50.0%; Pred. No. 1.5e+02;  
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 2 QDIETICV 9  
DB 208 KDVELSCV 215

RESULT 35  
US-10-915-002-335  
Sequence 335, Application US/10915002  
Publication No. US20060078950A1  
GENERAL INFORMATION:  
APPLICANT: Prognulke-Fox, Ann  
APPLICANT: Hillman, Jeffrey D.  
APPLICANT: Handfield, Martin  
TITLE OF INVENTION: IDENTIFICATION OF PORPHYROMONAS GINGIVALIS VIRULENCE POLYNUCLEOTIDE  
TITLE OF INVENTION: USE IN DIAGNOSIS ANTIGENS FOR USE IN THE DIAGNOSIS, TREATMENT, AND  
TITLE OF INVENTION: PERIODONTAL DISEASES  
FILE REFERENCE: 02-042  
CURRENT APPLICATION NUMBER: US/10/915,002  
CURRENT FILING DATE: 2004-08-10  
NUMBER OF SEQ ID NOS: 354  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 335  
LENGTH: 618  
TYPE: PRT  
ORGANISM: Porphyromonas gingivalis  
US-10-915-002-335

Query Match 67.4%; Score 31; DB 9; Length 618;  
Best Local Similarity 66.7%; Pred. No. 1.8e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LODIETCV 9  
Db 129 LKDIETAV 137

RESULT 36  
US-11-079-463-5820  
; Sequence 5820, Application US/11079463  
; Publication No. US20060073161A1  
; GENERAL INFORMATION:  
; APPLICANT: Gary L. Breton  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDS FOR  
; FILE REFERENCE: PAT00-03DIY2  
; CURRENT APPLICATION NUMBER: US/11/079,463  
; CURRENT FILING DATE: 2005-03-14  
; PRIOR APPLICATION NUMBER: US 60/128,705  
; PRIOR FILING DATE: 1999-04-09  
; PRIOR APPLICATION NUMBER: US 09/540,209  
; PRIOR FILING DATE: 2000-04-04  
; NUMBER OF SEQ ID NOS: 10444  
; SEQ ID NO 5820  
; LENGTH: 1326  
; TYPE: PRT  
; ORGANISM: B.fragilis  
US-11-079-463-5820

Query Match 67.4%; Score 31; DB 11; Length 1326;  
Best Local Similarity 50.0%; Pred. No. 4e+02;  
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 2 QDIETCV 9  
Db 73 RNIEVTCT 80

RESULT 37  
US-10-995-951A-28  
; Sequence 28, Application US/10995951A  
; Publication No. US20050245732A1  
; GENERAL INFORMATION:  
; APPLICANT: Hammoufa, A. et al.  
; TITLE OF INVENTION: A Repressor-Mediated Regulation System for Control of Gene Express  
; FILE REFERENCE: 1096.021B  
; CURRENT APPLICATION NUMBER: US/10/995,951A  
; CURRENT FILING DATE: 2004-11-23  
; PRIOR APPLICATION NUMBER: PCT/CA02/01807  
; PRIOR FILING DATE: 2002-11-21  
; PRIOR APPLICATION NUMBER: PCT/CA02/00740  
; PRIOR FILING DATE: 2002-05-23  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 28  
; LENGTH: 143  
; TYPE: PRT  
; ORGANISM: rhizobium elti  
US-10-995-951A-28

Query Match 65.2%; Score 30; DB 9; Length 143;  
Best Local Similarity 55.6%; Pred. No. 63;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LODIETCV 9  
Db 72 VQDEQITCL 80

RESULT 38  
US-10-995-951A-30  
; Sequence 30, Application US/10995951A  
; Publication No. US20050245732A1

; GENERAL INFORMATION:  
; APPLICANT: Hammoufa, A. et al.  
; TITLE OF INVENTION: A Repressor-Mediated Regulation System for Control of Gene Express  
; FILE REFERENCE: 1096.021B  
; CURRENT APPLICATION NUMBER: US/10/995,951A  
; CURRENT FILING DATE: 2004-11-23  
; PRIOR APPLICATION NUMBER: PCT/CA02/01807  
; PRIOR FILING DATE: 2002-11-21  
; PRIOR APPLICATION NUMBER: PCT/CA02/00740  
; PRIOR FILING DATE: 2002-05-23  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 30  
; LENGTH: 143  
; TYPE: PRT  
; ORGANISM: rhizobium meli10ct1  
US-10-995-951A-30

Query Match 65.2%; Score 30; DB 9; Length 143;  
Best Local Similarity 55.6%; Pred. No. 63;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LODIETCV 9  
Db 72 VQDDQITCL 80

RESULT 39  
US-11-067-425A-63  
; Sequence 63, Application US/11067425A  
; Publication No. US20050278809A1  
; GENERAL INFORMATION:  
; APPLICANT: Hammoufa, Abdeljalil  
; APPLICANT: Lydiat, Derek J.  
; APPLICANT: Gao, Ming-Jun  
; TITLE OF INVENTION: REGULATION OF GENE EXPRESSION USING CHROMATIN REMODELLING FACTORS  
; FILE REFERENCE: 270.78US11  
; CURRENT APPLICATION NUMBER: US/11/067,425A  
; CURRENT FILING DATE: 2005-02-22  
; PRIOR APPLICATION NUMBER: US 10/516,753  
; PRIOR FILING DATE: 2004-12-03  
; PRIOR APPLICATION NUMBER: PCT/CA03/00822  
; PRIOR FILING DATE: 2003-06-06  
; PRIOR APPLICATION NUMBER: US 60/387,088  
; PRIOR FILING DATE: 2002-06-06  
; NUMBER OF SEQ ID NOS: 108  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 63  
; LENGTH: 143  
; TYPE: PRT  
; ORGANISM: Rhizobium elti  
US-11-067-425A-63

Query Match 65.2%; Score 30; DB 11; Length 143;  
Best Local Similarity 55.6%; Pred. No. 63;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LODIETCV 9  
Db 72 VQDEQITCL 80

RESULT 40  
US-11-067-425A-65  
; Sequence 65, Application US/11067425A  
; Publication No. US20050278809A1  
; GENERAL INFORMATION:  
; APPLICANT: Hammoufa, Abdeljalil  
; APPLICANT: Lydiat, Derek J.  
; APPLICANT: Gao, Ming-Jun  
; TITLE OF INVENTION: REGULATION OF GENE EXPRESSION USING CHROMATIN REMODELLING FACTORS  
; FILE REFERENCE: 270.78US11

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; CURRENT APPLICATION NUMBER: US/11/067,425A
; CURRENT FILING DATE: 2005-02-22
; PRIOR APPLICATION NUMBER: US 10/516,753
; PRIOR FILING DATE: 2004-12-03
; PRIOR APPLICATION NUMBER: PCT/CA03/00832
; PRIOR FILING DATE: 2003-06-06
; PRIOR APPLICATION NUMBER: US 60/387,088
; PRIOR FILING DATE: 2002-06-06
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 65
; LENGTH: 143
; TYPE: PRT
; ORGANISM: Rhizobium meliloti
US-11-067-425A-65

Query Match          65.2%; Score 30; DB 11; Length 143;
Best Local Similarity 55.6%; Pred. No. 63;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      1 LODIERTCV 9
Db      72 VQDDQITCL 80

RESULT 41
US-11-079-463-7852
; Sequence 7852, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FR
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 7852
; LENGTH: 185
; TYPE: PRT
; ORGANISM: B. fragilis
US-11-079-463-7852

Query Match          65.2%; Score 30; DB 11; Length 185;
Best Local Similarity 55.6%; Pred. No. 83;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      1 LODIERTCV 9
Db      129 LKEIERTCI 137

RESULT 42
US-11-087-099-5363
; Sequence 5363, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abbad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 5363
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Rhodobacter sphaeroides
US-11-087-099-5363
```

```

Query Match          65.2%; Score 30; DB 11; Length 248;
Best Local Similarity 62.5%; Pred. No. 1.1e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      2 QDIERTCV 9
Db      176 QDIANVCV 183

RESULT 43
US-11-129-143-96
; Sequence 96, Application US/11129143
; Publication No. US20050266518A1
; GENERAL INFORMATION:
; APPLICANT: BERRY, Alan
; APPLICANT: BREITZEL, Werner
; APPLICANT: HUMBELIN, Markus
; APPLICANT: LOPEZ-ULIBARRI, Rual
; APPLICANT: MAYER, Anne F.
; APPLICANT: YELISEEV, Alexei A.
; TITLE OF INVENTION: IMPROVED ISOPRENOID PRODUCTION
; FILE REFERENCE: C38435/121966
; CURRENT APPLICATION NUMBER: US/11/129,143
; CURRENT FILING DATE: 2005-05-13
; NUMBER OF SEQ ID NOS: 197
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 96
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Streptococcus pyogenes
US-11-129-143-96

Query Match          65.2%; Score 30; DB 11; Length 292;
Best Local Similarity 62.5%; Pred. No. 1.3e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 LODIERTC 8
Db      33 LTDIEVVC 40

RESULT 44
US-11-188-298-10173
; Sequence 10173, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abbad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 10173
; LENGTH: 342
; TYPE: PRT
; ORGANISM: Methanosarcina acetivorans C2A
US-11-188-298-10173

Query Match          65.2%; Score 30; DB 11; Length 342;
Best Local Similarity 55.6%; Pred. No. 1.6e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      1 LODIERTCV 9
Db      111 LGDVERVCV 119

RESULT 45
US-11-188-298-21203
; Sequence 21203, Application US/11188298
; Publication No. US20060075522A1
```

```
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 21203
; LENGTH: 342
; TYPE: PRT
; ORGANISM: Methanosarcina mazei Goel
US-11-188-298-21203
```

```
Query Match      65.2%; Score 30; DB 11; Length 342;
Best Local Similarity 55.6%; Pred. No. 1.6e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 QDIEITC 9
Db      111 LGDVENVCV 119
```

```
RESULT 46
US-11-087-099-1029
; Sequence 1029, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 1029
; LENGTH: 377
; TYPE: PRT
; ORGANISM: Phanerochaete sordida
US-11-087-099-1029
```

```
Query Match      65.2%; Score 30; DB 11; Length 377;
Best Local Similarity 57.1%; Pred. No. 1.7e+02;
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      2 QDIEITC 8
Db      334 KDLELTC 340
```

```
RESULT 47
US-11-087-099-8872
; Sequence 8872, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 8872
; LENGTH: 378
; TYPE: PRT
; ORGANISM: Phanerochaete chrysosporium
US-11-087-099-8872
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; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 11183
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; TYPE: PRT
; ORGANISM: Phanerochaete chrysosporium
US-11-087-099-11183
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; Sequence 3689, Application US/11087099
; Publication No. US20060041961A1
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; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
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US-11-087-099-3689
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; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
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US-11-087-099-12203
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Oy 2 QDIRTC 8  
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Db 338 QDLRLSC 344

Search completed: May 5, 2006, 07:56:36  
Job time : 9.4 secs

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GenCore version 5.1.7  
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OM protein - protein search, using SW model

Run on: May 5, 2006, 05:36:41 ; Search time 20.9 Seconds  
(without alignments)  
35.602 Million cell updates/sec

Title: US-08-170-344-24  
Perfect score: 53  
Sequence: 1 BITCYCKT 9

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 100 summaries

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5: /cgn2\_6/prodata/1/1aa/RE-COMB.pep:\*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	53	100.0	158	2	US-08-767-942A-19
5	53	100.0	271	1	US-08-117-083-14
6	53	100.0	278	2	US-09-485-885-21
7	53	100.0	383	2	US-09-485-885-23
8	48	90.6	15	2	US-08-159-339A-1176
9	40	75.5	134	2	US-09-248-796A-19660
10	39	73.6	290	2	US-09-583-110-4329
11	39	73.6	290	2	US-09-769-787-153
12	39	73.6	305	2	US-09-107-433-2649
13	37	69.8	598	2	US-09-270-767-61572
14	36	67.9	368	2	US-09-000-094-20
15	36	67.9	368	2	US-10-011-749-20
16	36	67.9	375	2	US-09-000-094-22
17	36	67.9	375	2	US-10-011-749-22
18	36	67.9	465	2	US-09-000-094-24
19	36	67.9	465	2	US-10-011-749-24
20	36	67.9	1587	2	US-09-000-094-46
21	36	67.9	1587	2	US-10-011-749-46
22	36	67.9	3730	2	US-09-949-016-9908
23	35	66.0	9	2	US-08-159-339A-570
24	35	66.0	10	2	US-08-159-339A-573
25	35	66.0	20	1	US-08-934-915-160
26	35	66.0	30	2	US-09-980-523A-4
27	35	66.0	151	2	US-09-701-080C-18

28	35	66.0	158	2	US-09-980-523A-2	Sequence 2, Appli
29	35	66.0	162	1	US-08-316-239B-3	Sequence 3, Appli
30	35	66.0	162	1	US-08-316-239B-4	Sequence 4, Appli
31	35	66.0	172	2	US-08-860-165-14	Sequence 14, Appli
32	35	66.0	172	2	US-09-359-382-14	Sequence 14, Appli
33	35	66.0	182	1	US-08-117-083-10	Sequence 10, Appli
34	35	66.0	189	2	US-09-270-767-58555	Sequence 58555, A
35	35	66.0	243	2	US-09-462-993-1	Sequence 1, Appli
36	35	66.0	262	2	US-09-270-767-32820	Sequence 32820, A
37	35	66.0	266	2	US-08-860-165-10	Sequence 10, Appli
38	35	66.0	266	2	US-09-359-382-10	Sequence 10, Appli
39	35	66.0	266	2	US-09-367-309A-1	Sequence 1, Appli
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43	35	66.0	292	2	US-09-485-885-10	Sequence 43213, A
44	35	66.0	352	2	US-09-270-767-43213	Sequence 6, Appli
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46	35	66.0	390	2	US-09-485-885-14	Sequence 27, Appli
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48	35	66.0	10	2	US-08-159-339A-86	Sequence 575, App
49	34	64.2	10	2	US-08-159-339A-575	Sequence 94, Appli
50	34	64.2	25	2	US-09-288-143-94	Sequence 27, Appli
51	34	64.2	169	2	US-09-540-236-2860	Sequence 2860, Ap
52	34	64.2	280	2	US-09-270-767-32482	Sequence 32482, A
53	34	64.2	344	2	US-09-134-000C-5935	Sequence 5935, Ap
54	34	64.2	344	2	US-09-270-767-62069	Sequence 62069, A
55	34	64.2	369	2	US-09-270-767-64683	Sequence 46483, A
56	34	64.2	433	2	US-10-104-047-3033	Sequence 3033, Ap
57	34	64.2	462	2	US-09-252-9931A-18304	Sequence 18304, A
58	34	64.2	554	2	US-09-540-236-2663	Sequence 2663, Ap
59	34	64.2	572	2	US-09-648-004-8	Sequence 11, Appli
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61	34	64.2	617	2	US-09-538-032-1349	Sequence 1349, Ap
62	34	64.2	622	2	US-09-328-352-7970	Sequence 7970, Ap
63	34	64.2	1380	2	US-09-949-016-11688	Sequence 11688, A
64	33	62.3	12	2	US-09-579-883A-6	Sequence 6, Appli
65	33	62.3	45	2	US-08-975-080-11	Sequence 11, Appli
66	33	62.3	45	2	US-08-975-080-12	Sequence 12, Appli
67	33	62.3	45	2	US-10-138-618-11	Sequence 11, Appli
68	33	62.3	45	2	US-10-138-618-12	Sequence 12, Appli
69	33	62.3	45	2	US-09-690-825-11	Sequence 11, Appli
70	33	62.3	45	2	US-09-690-825-12	Sequence 12, Appli
71	33	62.3	56	1	US-08-691-814B-24	Sequence 24, Appli
72	33	62.3	59	2	US-08-657-759-4	Sequence 4, Appli
73	33	62.3	60	2	US-09-270-767-58063	Sequence 58063, A
74	33	62.3	61	2	US-09-107-532A-5570	Sequence 5570, Ap
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77	33	62.3	67	2	US-09-201-936-11	Sequence 11, Appli
78	33	62.3	67	2	US-09-201-936-14	Sequence 14, Appli
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83	33	62.3	88	2	US-09-248-796A-35071	Sequence 25071, A
84	33	62.3	105	2	US-09-732-210-1058	Sequence 1058, Ap
85	33	62.3	134	2	US-09-270-767-44989	Sequence 44989, A
86	33	62.3	137	2	US-09-270-767-41265	Sequence 41265, A
87	33	62.3	137	2	US-08-270-767-56481	Sequence 56481, A
88	33	62.3	137	2	US-08-813-323C-8	Sequence 8, Appli
89	33	62.3	135	2	US-09-711-164-351	Sequence 351, Appli
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91	33	62.3	242	2	US-09-489-039A-11950	Sequence 11950, A
92	33	62.3	268	2	US-08-836-134-22	Sequence 22, Appli
93	33	62.3	268	2	US-09-493-784-22	Sequence 22, Appli
94	33	62.3	275	1	US-08-511-485-12	Sequence 12, Appli
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98	33	62.3	275	2	US-09-011-356-12	Sequence 12, Appli
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103	33	62.3	459	2	US-09-605-042A-41	Sequence 41, Appl	176	32	60.4	1041	2	US-10-144-198-14	Sequence 14, Appl
104	33	62.3	504	2	US-09-270-767-35938	Sequence 35938, A	177	32	60.4	1068	2	US-09-248-796A-16119	Sequence 16119, A
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106	33	62.3	543	2	US-08-697-610-2	Sequence 2, Appl	179	32	60.4	1572	2	US-09-561-818A-28	Sequence 28, Appl
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109	33	62.3	567	2	US-08-813-323C-1	Sequence 1, Appl	182	32	60.4	1605	2	US-09-561-818A-26	Sequence 26, Appl
110	33	62.3	568	2	US-09-949-016-6339	Sequence 6339, Ap	183	32	60.4	1605	2	US-10-037-182-18	Sequence 18, Appl
111	33	62.3	568	2	US-08-813-323C-2	Sequence 2, Appl	184	31	58.5	17	2	US-09-128-344A-21	Sequence 21, Appl
112	33	62.3	634	2	US-09-248-796A-17852	Sequence 17852, A	185	31	58.5	17	2	US-09-128-344A-109	Sequence 109, App
113	33	62.3	640	2	US-09-949-016-7992	Sequence 7992, Ap	186	31	58.5	17	2	US-09-128-344A-130	Sequence 130, App
114	33	62.3	738	2	US-09-538-092-872	Sequence 16666, A	187	31	58.5	17	5	US-10-255-011-21	Sequence 21, Appl
115	33	62.3	785	2	US-09-538-092-872	Sequence 872, App	188	31	58.5	17	5	US-10-255-011-109	Sequence 109, App
116	33	62.3	895	2	US-09-270-767-42746	Sequence 42746, A	189	31	58.5	17	5	US-10-255-011-130	Sequence 130, App
117	33	62.3	1063	2	US-09-270-767-44682	Sequence 44682, A	190	31	58.5	18	2	US-09-128-344A-29	Sequence 29, Appl
118	32	60.4	67	2	US-09-854-864-20	Sequence 20, Appl	191	31	58.5	18	2	US-09-128-344A-39	Sequence 39, Appl
119	32	60.4	84	2	US-09-854-864-16	Sequence 16, Appl	192	31	58.5	18	2	US-09-128-344A-43	Sequence 43, Appl
120	32	60.4	84	2	US-09-621-976-4719	Sequence 4719, Ap	193	31	58.5	18	2	US-09-128-344A-113	Sequence 113, App
121	32	60.4	85	2	US-09-270-767-58747	Sequence 58747, A	194	31	58.5	18	2	US-09-128-344A-118	Sequence 118, App
122	32	60.4	102	2	US-09-732-210-1066	Sequence 1066, Ap	195	31	58.5	18	2	US-09-128-344A-120	Sequence 120, App
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124	32	60.4	106	1	US-08-557-128-6	Sequence 6, Appl	197	31	58.5	18	2	US-09-128-344A-139	Sequence 139, App
125	32	60.4	106	2	US-09-242-690A-39	Sequence 39, Appl	198	31	58.5	18	2	US-09-128-344A-141	Sequence 141, App
126	32	60.4	106	2	US-09-732-210-370	Sequence 370, App	199	31	58.5	18	5	US-10-255-011-29	Sequence 29, Appl
127	32	60.4	106	2	US-09-908-855-39	Sequence 39, Appl	200	31	58.5	18	5	US-10-255-011-39	Sequence 39, Appl
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131	32	60.4	116	2	US-09-543-681A-6905	Sequence 6905, Ap	204	31	58.5	18	5	US-10-255-011-120	Sequence 120, App
132	32	60.4	138	2	US-09-134-001C-4650	Sequence 4650, Ap	205	31	58.5	18	5	US-10-255-011-134	Sequence 134, App
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136	32	60.4	166	1	US-08-810-572A-6	Sequence 6, Appl	209	31	58.5	28	1	US-08-446-915-15	Sequence 15, Appl
137	32	60.4	166	2	US-09-290-333-6	Sequence 6, Appl	210	31	58.5	28	1	US-08-446-915-15	Sequence 15, Appl
138	32	60.4	166	2	US-09-782-857A-6	Sequence 6, Appl	211	31	58.5	28	1	US-08-744-139-15	Sequence 15, Appl
139	32	60.4	166	2	US-09-854-864-15	Sequence 15, Appl	212	31	58.5	28	2	US-08-779-599-15	Sequence 15, Appl
140	32	60.4	182	2	US-09-028-328-1	Sequence 1, Appl	213	31	58.5	28	4	PCT-US95-06639-15	Sequence 15, Appl
141	32	60.4	286	1	US-09-902-540-14498	Sequence 14498, A	214	31	58.5	47	2	US-10-144-929-121	Sequence 121, Appl
142	32	60.4	293	1	US-08-810-572A-2	Sequence 2, Appl	215	31	58.5	52	2	US-09-755-665-42	Sequence 42, Appl
143	32	60.4	293	2	US-09-290-333-2	Sequence 2, Appl	216	31	58.5	54	2	US-09-270-767-59743	Sequence 59743, A
144	32	60.4	293	2	US-09-782-857A-2	Sequence 2, Appl	217	31	58.5	69	2	US-09-248-796A-22634	Sequence 22634, A
145	32	60.4	293	2	US-09-879-919-22	Sequence 22, Appl	218	31	58.5	91	1	US-08-168-093A-28	Sequence 28, Appl
146	32	60.4	293	2	US-09-848-295-4	Sequence 4, Appl	219	31	58.5	95	1	US-07-847-743B-14	Sequence 14, Appl
147	32	60.4	293	2	US-09-854-864-14	Sequence 14, Appl	220	31	58.5	95	1	US-08-456-201-14	Sequence 14, Appl
148	32	60.4	307	2	US-09-634-238-245	Sequence 245, App	221	31	58.5	95	1	US-08-330-161-12	Sequence 12, Appl
149	32	60.4	310	2	US-09-583-110-4062	Sequence 4062, Ap	222	31	58.5	95	1	US-08-456-241-14	Sequence 14, Appl
150	32	60.4	357	2	US-09-949-016-9074	Sequence 9074, Ap	223	31	58.5	95	1	US-08-440-401-12	Sequence 12, Appl
151	32	60.4	363	2	US-09-949-016-11040	Sequence 11040, A	224	31	58.5	95	1	US-08-419-878B-12	Sequence 12, Appl
152	32	60.4	365	2	US-09-949-016-9075	Sequence 9075, Ap	225	31	58.5	95	2	US-09-173-480-12	Sequence 12, Appl
153	32	60.4	371	2	US-09-949-016-9073	Sequence 9073, Ap	226	31	58.5	95	2	US-10-022-609-12	Sequence 12, Appl
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155	32	60.4	397	2	US-09-854-864-18	Sequence 18, Appl	228	31	58.5	105	2	US-09-755-665-40	Sequence 40, Appl
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157	32	60.4	407	2	US-08-753-007A-6	Sequence 6, Appl	230	31	58.5	107	2	US-09-755-665-10	Sequence 10, Appl
158	32	60.4	407	2	US-09-338-496-6	Sequence 6, Appl	231	31	58.5	107	2	US-10-169-048-46	Sequence 46, Appl
159	32	60.4	446	2	US-09-538-092-781	Sequence 781, App	232	31	58.5	113	1	US-08-168-093A-26	Sequence 26, Appl
160	32	60.4	464	2	US-09-198-452A-816	Sequence 816, App	233	31	58.5	118	2	US-09-270-767-60607	Sequence 60607, A
161	32	60.4	464	2	US-09-438-185A-768	Sequence 768, App	234	31	58.5	119	2	US-09-270-767-58636	Sequence 58636, A
162	32	60.4	467	2	US-09-248-796A-17558	Sequence 17558, A	235	31	58.5	122	2	US-09-489-039A-7844	Sequence 7844, Ap
163	32	60.4	469	2	US-08-753-007A-8	Sequence 8, Appl	236	31	58.5	144	2	US-09-270-767-43293	Sequence 43293, A
164	32	60.4	469	2	US-09-338-496-8	Sequence 8, Appl	237	31	58.5	146	2	US-09-489-039A-7386	Sequence 7386, Ap
165	32	60.4	529	2	US-09-385-219A-44	Sequence 44, Appl	238	31	58.5	158	2	US-09-523-999A-24669	Sequence 24669, A
166	32	60.4	558	2	US-09-138-277C-1	Sequence 1, Appl	239	31	58.5	159	2	US-09-543-681A-5112	Sequence 5112, Ap
167	32	60.4	576	2	US-09-543-681A-5126	Sequence 5126, Ap	240	31	58.5	176	2	US-09-270-767-43941	Sequence 43941, A
168	32	60.4	605	2	US-08-753-007A-2	Sequence 2, Appl	241	31	58.5	177	2	US-09-893-737-166	Sequence 166, App
169	32	60.4	605	2	US-09-338-496-2	Sequence 2, Appl	242	31	58.5	188	2	US-08-470-335-208	Sequence 204, App
170	32	60.4	637	2	US-09-569-611C-35	Sequence 35, Appl	243	31	58.5	188	2	US-09-270-767-62036	Sequence 62036, A
171	32	60.4	647	2	US-08-753-007A-32	Sequence 32, Appl	244	31	58.5	188	2	US-08-411-295F-37	Sequence 37, Appl
172	32	60.4	647	2	US-09-398-496-32	Sequence 32, Appl	245	31	58.5	188	2	US-08-411-295F-30	Sequence 30, Appl
173	32	60.4	754	1	US-08-525-864A-2	Sequence 2, Appl	246	31	58.5	190	2	US-08-341-018-42	Sequence 42, Appl

247	31	58.5	190	2	US-08-341-018-44	Sequence 44, Appl	320	31	58.5	422	2	US-08-753-007A-9	Sequence 9, Appl1
248	31	58.5	190	2	US-08-470-335-217	Sequence 217, App	321	31	58.5	422	2	US-09-398-496-9	Sequence 9, Appl1
249	31	58.5	190	2	US-08-470-339-204	Sequence 204, App	322	31	58.5	423	2	US-08-467-602-255	Sequence 255, Appl
250	31	58.5	190	2	US-08-470-339-217	Sequence 217, App	323	31	58.5	423	2	US-08-411-295F-181	Sequence 181, App
251	31	58.5	190	2	US-08-467-602-398	Sequence 398, App	324	31	58.5	427	2	US-08-467-602-189	Sequence 189, App
252	31	58.5	190	2	US-08-467-602-411	Sequence 411, App	325	31	58.5	427	2	US-08-411-295F-313	Sequence 313, App
253	31	58.5	210	2	US-08-467-602-191	Sequence 191, App	326	31	58.5	429	2	US-08-467-602-269	Sequence 269, App
254	31	58.5	210	2	US-08-411-295F-315	Sequence 315, App	327	31	58.5	429	2	US-08-411-295F-195	Sequence 195, App
255	31	58.5	213	2	US-08-467-602-186	Sequence 186, App	328	31	58.5	430	2	US-08-467-602-187	Sequence 187, App
256	31	58.5	213	2	US-08-411-295F-310	Sequence 310, App	329	31	58.5	430	2	US-08-411-295F-311	Sequence 311, App
257	31	58.5	219	2	US-08-467-602-200	Sequence 200, App	330	31	58.5	432	2	US-08-467-602-266	Sequence 266, App
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259	31	58.5	222	2	US-08-467-602-197	Sequence 197, App	332	31	58.5	436	2	US-08-467-602-201	Sequence 201, App
260	31	58.5	222	2	US-08-411-295F-321	Sequence 321, App	333	31	58.5	436	2	US-08-411-295F-325	Sequence 325, App
261	31	58.5	233	2	US-08-467-602-194	Sequence 194, App	334	31	58.5	437	2	US-09-252-991A-24572	Sequence 24572, A
262	31	58.5	233	2	US-08-411-295F-318	Sequence 318, App	335	31	58.5	439	2	US-08-467-602-198	Sequence 198, App
263	31	58.5	236	2	US-09-252-991A-27618	Sequence 27618, A	336	31	58.5	443	2	US-08-411-295F-322	Sequence 322, App
264	31	58.5	239	2	US-09-543-681A-4932	Sequence 4932, Ap	337	31	58.5	443	2	US-08-467-602-263	Sequence 263, App
265	31	58.5	242	2	US-08-467-602-203	Sequence 203, App	338	31	58.5	448	2	US-09-107-532A-6632	Sequence 6632, Ap
266	31	58.5	242	2	US-08-411-295F-327	Sequence 327, App	339	31	58.5	450	2	US-08-467-602-195	Sequence 195, App
267	31	58.5	258	2	US-09-328-352-4253	Sequence 4253, Ap	340	31	58.5	450	2	US-08-411-295F-319	Sequence 319, App
268	31	58.5	262	2	US-09-270-767-59434	Sequence 59434, A	341	31	58.5	452	2	US-08-467-602-272	Sequence 272, App
269	31	58.5	263	2	US-09-662-254B-15	Sequence 15, Appl1	342	31	58.5	452	2	US-08-411-295F-198	Sequence 198, App
270	31	58.5	290	1	US-08-321-478-7	Sequence 7, Appl1	343	31	58.5	454	1	US-08-166-316-2	Sequence 2, Appl1
271	31	58.5	290	1	US-08-321-478-8	Sequence 8, Appl1	344	31	58.5	454	2	US-09-124-238A-1	Sequence 10, Appl1
272	31	58.5	290	1	US-08-321-478-9	Sequence 9, Appl1	345	31	58.5	457	2	US-09-124-238A-10	Sequence 10, Appl1
273	31	58.5	298	2	US-09-684-708A-7	Sequence 7, Appl1	346	31	58.5	457	2	US-09-721-975-1	Sequence 1, Appl1
274	31	58.5	351	2	US-09-543-681A-8338	Sequence 8338, Ap	347	31	58.5	457	2	US-09-721-975-10	Sequence 10, Appl1
275	31	58.5	352	2	US-08-467-602-239	Sequence 239, App	348	31	58.5	457	2	US-09-986-621-1	Sequence 1, Appl1
276	31	58.5	352	2	US-09-270-767-45115	Sequence 45115, A	349	31	58.5	457	2	US-09-986-621-10	Sequence 10, Appl1
277	31	58.5	352	2	US-08-411-295F-165	Sequence 165, App	350	31	58.5	457	2	US-09-986-625-1	Sequence 10, Appl1
278	31	58.5	355	2	US-08-467-602-234	Sequence 234, App	351	31	58.5	457	2	US-09-986-625-10	Sequence 204, App
279	31	58.5	355	2	US-08-411-295F-160	Sequence 160, App	352	31	58.5	459	2	US-08-467-602-204	Sequence 328, App
280	31	58.5	360	2	US-09-252-991A-31993	Sequence 31993, A	353	31	58.5	459	2	US-08-411-295F-328	Sequence 328, App
281	31	58.5	361	2	US-08-467-602-248	Sequence 248, App	354	31	58.5	462	2	US-09-489-039A-12427	Sequence 12427, A
282	31	58.5	361	2	US-08-411-295F-174	Sequence 174, App	355	31	58.5	462	2	US-08-467-602-190	Sequence 190, App
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286	31	58.5	375	2	US-08-411-295F-168	Sequence 168, App	359	31	58.5	477	2	US-08-411-295F-309	Sequence 309, App
287	31	58.5	383	2	US-09-266-965-100	Sequence 100, App	360	31	58.5	479	2	US-09-949-016-9255	Sequence 317, App
288	31	58.5	384	2	US-08-467-602-251	Sequence 251, App	361	31	58.5	483	2	US-08-467-602-305	Sequence 205, App
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296	31	58.5	389	2	US-08-411-295F-139	Sequence 139, App	369	31	58.5	557	2	US-09-138-277C-3	Sequence 58, Appl1
297	31	58.5	389	2	US-08-411-295F-202	Sequence 202, App	370	31	58.5	560	2	US-08-341-018-58	Sequence 58, Appl1
298	31	58.5	395	2	US-08-467-602-227	Sequence 227, App	371	31	58.5	560	2	US-08-470-339-194	Sequence 194, App
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308	31	58.5	409	2	US-08-411-295F-147	Sequence 147, App	381	31	58.5	578	2	US-08-467-602-249	Sequence 249, App
309	31	58.5	409	2	US-08-411-295F-210	Sequence 210, App	382	31	58.5	578	2	US-08-411-295F-175	Sequence 175, App
310	31	58.5	418	2	US-08-467-602-230	Sequence 230, App	383	31	58.5	581	2	US-08-467-602-246	Sequence 246, App
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313	31	58.5	418	2	US-08-411-295F-219	Sequence 219, App	386	31	58.5	592	2	US-08-411-295F-169	Sequence 169, App
314	31	58.5	420	1	US-07-847-743B-29	Sequence 29, Appl1	387	31	58.5	601	2	US-08-467-602-252	Sequence 252, App
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317	31	58.5	420	2	US-08-467-602-260	Sequence 260, App	390	31	58.5	601	2	US-08-411-295F-249	Sequence 249, App
318	31	58.5	420	2	US-08-411-295F-186	Sequence 186, App	391	31	58.5	602	1	US-08-168-091A-2	Sequence 2, Appl1
319	31	58.5	420	4	PCT-US92-04295A-29	Sequence 29, Appl1	392	31	58.5	602	1		

393	31	58.5	602	1	US-08-428-926-5	Sequence 5, App1	466	31	58.5	640	2	US-08-411-295F-182	Sequence 182, App
394	31	58.5	602	1	US-08-428-927-5	Sequence 5, App1	467	31	58.5	644	2	US-08-470-335-250	Sequence 250, App
395	31	58.5	602	1	US-08-428-298-5	Sequence 5, App1	468	31	58.5	644	2	US-08-467-602-311	Sequence 311, App
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398	31	58.5	603	2	US-08-467-602-279	Sequence 279, App	471	31	58.5	644	2	US-08-411-295F-300	Sequence 300, App
399	31	58.5	603	2	US-08-411-295F-142	Sequence 142, App	472	31	58.5	645	1	US-07-847-743B-27	Sequence 27, App1
400	31	58.5	603	2	US-08-411-295F-205	Sequence 205, App	473	31	58.5	645	1	US-08-456-201-27	Sequence 27, App1
401	31	58.5	604	2	US-08-470-335-227	Sequence 227, App	474	31	58.5	645	1	US-08-428-926-4	Sequence 4, App1
402	31	58.5	604	2	US-08-467-602-318	Sequence 318, App	475	31	58.5	645	1	US-08-428-927-4	Sequence 4, App1
403	31	58.5	604	2	US-08-411-295F-244	Sequence 244, App	476	31	58.5	645	1	US-08-428-928-4	Sequence 4, App1
404	31	58.5	606	2	US-08-467-602-214	Sequence 214, App	477	31	58.5	645	1	US-08-339-517-4	Sequence 4, App1
405	31	58.5	606	2	US-08-467-602-277	Sequence 277, App	478	31	58.5	645	1	US-08-456-201-13	Sequence 13, App1
406	31	58.5	606	2	US-08-411-295F-140	Sequence 140, App	479	31	58.5	645	2	US-08-753-007A-10	Sequence 10, App1
407	31	58.5	606	2	US-08-411-295F-203	Sequence 203, App	480	31	58.5	645	2	US-09-398-496-10	Sequence 10, App1
408	31	58.5	610	2	US-08-470-335-236	Sequence 236, App	481	31	58.5	645	2	US-09-020-880-93	Sequence 93, App1
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411	31	58.5	612	2	US-08-467-602-228	Sequence 228, App	484	31	58.5	645	4	PCT-US92-04295A-27	Sequence 27, App1
412	31	58.5	612	2	US-08-467-602-291	Sequence 291, App	485	31	58.5	646	2	US-08-467-602-270	Sequence 270, App
413	31	58.5	612	2	US-08-411-295F-154	Sequence 154, App	486	31	58.5	646	2	US-09-270-767-46452	Sequence 46452, A
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450	31	58.5	635	2	US-08-411-295F-228	Sequence 228, App	523	31	58.5	669	1	US-08-456-201-8	Sequence 8, App1
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452	31	58.5	637	1	US-07-847-743B-28	Sequence 28, App1	525	31	58.5	669	1	US-08-456-201-13	Sequence 13, App1
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735	30	56.6	129	2	US-09-513-999C-5971	Sequence 5971, App	808	30	56.6	445	2	US-09-328-352-7326	Sequence 7326, App
736	30	56.6	138	2	US-09-540-236-6261	Sequence 6261, App	809	30	56.6	442	2	US-09-328-352-4537	Sequence 4537, App
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743	30	56.6	151	2	US-08-605-430-8	Sequence 8, Appl1	816	30	56.6	529	2	US-08-426-509A-15	Sequence 15, App1
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## ALIGNMENTS

RESULT 1  
US-08-466-285-2  
Sequence 2, Application US/08466285  
Patent No. 5753233  
GENERAL INFORMATION:  
APPLICANT: BLEUL, Conrad  
APPLICANT: GISSMANN, Lutz  
APPLICANT: MULLER, Martin  
TITLE OF INVENTION: Seroreactive Epitopes On Proteins Of  
TITLE OF INVENTION: Human Papillomavirus (HPV) 18  
NUMBER OF SEQUENCES: 7  
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ZIP: 20005-3315  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/466,285  
FILING DATE: 06-JUN-1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/164,768  
FILING DATE: 10-DEC-1993  
CLASSIFICATION: 424  
APPLICATION NUMBER: US 07/947,992  
FILING DATE: 21-SEP-1992  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/696,953  
FILING DATE: 08-MAY-1991  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: P 40 15 044.5  
FILING DATE: 10-MAY-1990  
CLASSIFICATION: 424

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INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 32 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-466-285-2

Query Match 100.0%; Score 53; DB 1; Length 32;  
Best Local Similarity 100.0%; Pred. No. 0.048;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 24 EITCVYCKT 32

RESULT 2  
US-08-164-768-2  
Sequence 2, Application US/08164768  
Patent No. 6322794  
GENERAL INFORMATION:  
APPLICANT: BLEUL, Conrad  
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APPLICANT: MULLER, Martin  
TITLE OF INVENTION: SEROREACTIVE EPITOPES ON PROTEINS OF  
TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS (HPV) 18  
NUMBER OF SEQUENCES: 7  
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COUNTRY: USA  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/164,768  
FILING DATE: 10-DEC-1993  
CLASSIFICATION: 424  
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REGISTRATION NUMBER: 33,694  
REFERENCE/DOCKET NUMBER: 05552.1075-02000  
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TELEPHONE: (202) 408-4000  
TELEFAX: (202) 408-4400  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 32 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-164-768-2

Query Match 100.0%; Score 53; DB 2; Length 32;  
Best Local Similarity 100.0%; Pred. No. 0.048;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;



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Db 24 EITCVYCKT 32

RESULT 3  
US-08-247-904B-10  
Sequence 10, Application US/08247904B  
Patent No. 5981699

GENERAL INFORMATION:  
APPLICANT: Rolfe, Mark  
APPLICANT: Eckstein, Jens W.  
APPLICANT: Draetta, Giulio  
TITLE OF INVENTION: Human Ubiquitin Conjugating Enzyme  
NUMBER OF SEQUENCES: 17  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Foley, Hoag & Eliot  
STREET: One Post Office Square  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: ASCII (text)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/247,904B  
FILING DATE: 23-MAY-1994  
CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
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REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: MIV-029.01  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 832-7000  
TELEFAX: (617) 832-7000  
INFORMATION FOR SEQ ID NO: 10:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 158 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-247-904B-10

Query Match 100.0%; Score 53; DB 1; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.21;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 29 EITCVYCKT 37

RESULT 4  
US-08-767-942A-19  
Sequence 19, Application US/08767942A  
Patent No. 6068982  
GENERAL INFORMATION:  
APPLICANT: Rolfe, Mark  
APPLICANT: Chiu, M. Isabel  
APPLICANT: Berlin, Vivian  
APPLICANT: Damagnez, Veronique  
APPLICANT: Draetta, Giulio  
APPLICANT: Guillaume, Coctarel  
TITLE OF INVENTION: UBIQUITIN CONJUGATING ENZYMES  
NUMBER OF SEQUENCES: 45  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FOLEY, HOAG & ELIOT LLP  
STREET: One Post Office Square  
CITY: Boston  
STATE: MA

COUNTRY: USA  
ZIP: 02109-2170  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/767,942A  
FILING DATE: 17-DEC-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Vincent, Matthew P.  
REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: MIV-029.04  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-832-7000  
TELEFAX: 617-832-7000  
INFORMATION FOR SEQ ID NO: 19:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 158 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-767-942A-19

Query Match 100.0%; Score 53; DB 2; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.21;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EITCVYCKT 9  
|||  
Db 29 EITCVYCKT 37

RESULT 5  
US-08-117-083-14  
Sequence 14, Application US/08117083  
Patent No. 5719054  
GENERAL INFORMATION:  
APPLICANT: Bourneill, Michael E.  
APPLICANT: Inglis, Stephen C.  
APPLICANT: Munro, Alan J.  
TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human  
NUMBER OF SEQUENCES: 70  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Walter H. Dregger  
STREET: 4 Embarcadero Center, Suite 3400  
CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94111  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/117,083  
FILING DATE: 10-SEP-1993  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Dregger, Walter H.  
REGISTRATION NUMBER: 24,190  
REFERENCE/DOCKET NUMBER: A-58783  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-781-1989  
TELEFAX: 415-398-3249  
TELEX: 910 277299  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 271 amino acids  
TYPE: amino acid

STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
NAME/KEY: Protein  
LOCATION: 1..271  
OTHER INFORMATION: /note="Xaa refers to stop codon in  
OTHER INFORMATION: the open reading frame."  
US-08-117-083-14

Query Match 100.0%; Score 53; DB 1; Length 271;  
Best Local Similarity 100.0%; Pred. No. 0.34;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EITCVYCKT 9  
Db 30 EITCVYCKT 38

RESULT 6  
US-09-485-885-21  
Sequence 21, Application US/09485885  
Patent No. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabezon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Bernarde  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 21  
LENGTH: 278  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-485-885-21

Query Match 100.0%; Score 53; DB 2; Length 278;  
Best Local Similarity 100.0%; Pred. No. 0.35;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EITCVYCKT 9  
Db 140 EITCVYCKT 148

RESULT 7  
US-09-485-885-23  
Sequence 23, Application US/09485885  
Patent No. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabezon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Bernarde  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23

SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 23  
LENGTH: 383  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-485-885-23

Query Match 100.0%; Score 53; DB 2; Length 383;  
Best Local Similarity 100.0%; Pred. No. 0.46;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EITCVYCKT 9  
Db 140 EITCVYCKT 148

RESULT 8  
US-08-159-339A-1176  
Sequence 1176, Application US/08159339A  
Patent No. 6037135  
GENERAL INFORMATION:  
APPLICANT: Kubo, Ralph T.  
APPLICANT: Grey, Howard M.  
APPLICANT: Sette, Alessandro  
APPLICANT: Celis, Esteban  
TITLE OF INVENTION: HLA Binding peptides and Their  
NUMBER OF SEQUENCES: 1254  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/159,339A  
FILING DATE: 29-NOV-1993  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/926,666  
FILING DATE: 07-AUG-1992  
APPLICATION NUMBER: US 08/027,746  
FILING DATE: 05-MAR-1993  
APPLICATION NUMBER: US 08/103,396  
FILING DATE: 06-AUG-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Weber, Ellen Lauver  
REGISTRATION NUMBER: 32,762  
REFERENCE/DOCKET NUMBER: 018623-005030US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
TELEX:  
INFORMATION FOR SEQ ID NO: 1176:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 15 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-159-339A-1176

Query Match 90.6%; Score 48; DB 2; Length 15;  
Best Local Similarity 100.0%; Pred. No. 0.15;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EITCVYCK 8

Db 8 EITCVYCK 15

RESULT 9  
US-09-248-796A-19660  
; Sequence 19660, Application US/09248796A  
; Patent No. 6747137  
; GENERAL INFORMATION:  
; APPLICANT: Keith Weinstein et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN  
; FILE REFERENCE: 107196.132  
; CURRENT APPLICATION NUMBER: US/09/248.796A  
; PRIOR FILING DATE: 1999-02-12  
; PRIOR APPLICATION NUMBER: US 60/074,725  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: US 60/096,409  
; PRIOR FILING DATE: 1998-08-13  
; NUMBER OF SEQ ID NOS: 28208  
; SEQ ID NO 19660  
; LENGTH: 134  
; TYPE: PRT  
; ORGANISM: Candida albicans  
US-09-248-796A-19660

Query Match 75.5%; Score 40; DB 2; Length 134;  
Best Local Similarity 75.0%; Pred. No. 20;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 EITCVYCK 8  
|||  
|||  
Db 49 EITCVYCK 56

RESULT 10  
US-09-583-110-4329  
; Sequence 4329, Application US/09583110  
; Patent No. 6699703  
; GENERAL INFORMATION:  
; APPLICANT: Lynn Doucette-Stamm et al.  
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus  
; FILE REFERENCE: PAT00-07A  
; CURRENT APPLICATION NUMBER: US/09/583,110  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: US 09/107,433  
; PRIOR FILING DATE: 1998-06-30  
; PRIOR APPLICATION NUMBER: US 60/085,131  
; PRIOR FILING DATE: 1998-05-12  
; PRIOR APPLICATION NUMBER: US 60/051,553  
; PRIOR FILING DATE: 1997-07-02  
; NUMBER OF SEQ ID NOS: 5322  
; SEQ ID NO 4329  
; LENGTH: 290  
; TYPE: PRT  
; ORGANISM: Streptococcus pneumoniae  
US-09-583-110-4329

Query Match 73.6%; Score 39; DB 2; Length 290;  
Best Local Similarity 66.7%; Pred. No. 59;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 EITCVYCK 9  
|||  
|||  
Db 265 EITCFCCT 273

RESULT 11  
US-09-769-787-153  
; Sequence 153, Application US/09769787  
; Patent No. 6936252  
; GENERAL INFORMATION:

APPLICANT: Microbial Technics Limited  
; APPLICANT: Gilbert, Christophe FG  
; APPLICANT: Hansbro, Philip M  
; TITLE OF INVENTION: Proteins  
; FILE REFERENCE: PWC/E21129WO  
; CURRENT APPLICATION NUMBER: US/09/769,787  
; PRIOR FILING DATE: 2001-01-26  
; PRIOR APPLICATION NUMBER: GB 9816337.1  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: US 60/125164  
; PRIOR FILING DATE: 1999-03-19  
; NUMBER OF SEQ ID NOS: 388  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 153  
; LENGTH: 290  
; TYPE: PRT  
; ORGANISM: Streptococcus pneumoniae  
US-09-769-787-153

Query Match 73.6%; Score 39; DB 2; Length 290;  
Best Local Similarity 66.7%; Pred. No. 59;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 EITCVYCK 9  
|||  
|||  
Db 265 EITCFCCT 273

RESULT 12  
US-09-107-433-2649  
; Sequence 2649, Application US/09107433  
; Patent No. 6800744  
; GENERAL INFORMATION:  
; APPLICANT: Lynn A Doucette-Stamm and David Bush  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID  
SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE  
; FOR DIAGNO  
THERAPEUTICS  
; NUMBER OF SEQUENCES: 5206  
; CORRESPONDENCE ADDRESS:  
STREET: 100 Beaver Street  
CITY: Waltham  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02354  
; COMPUTER READABLE FORM:  
MEDIUM TYPE: CD-ROM ISO9660  
COMPUTER: <Unknown>  
OPERATING SYSTEM: <Unknown>  
SOFTWARE: <Unknown>  
; CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/107,433  
FILING DATE: 30-Jun-1998  
; PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/085131  
FILING DATE: May 12, 1998  
APPLICATION NUMBER: 60/051553  
FILING DATE: July 2, 1997  
; ATTORNEY/AGENT INFORMATION:  
NAME: Ariniello, Pamela Deneke  
REGISTRATION NUMBER: 40,489  
REFERENCE/DOCKET NUMBER: GTC-011  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (781) 893-5007  
TELEFAX: (781) 893-8277  
; INFORMATION FOR SEQ ID NO: 2649:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 305 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: YES  
ORIGINAL SOURCE:

ORGANISM: Streptococcus pneumoniae  
FEATURE:  
NAME/KEY: misc.feature  
LOCATION: (B) LOCATION 1...305  
SEQUENCE DESCRIPTION: SEQ ID NO: 2649:  
US-09-107-433-2649

Query Match 73.6%; Score 39; DB 2; Length 305;  
Best Local Similarity 66.7%; Pred. No. 62;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 EITCVCKT 9  
|||:|:  
Db 280 EITCVCKT 288

RESULT 13  
US-09-270-767-61572  
Sequence 61572; Application US/09270767  
Patent No. 6703491  
GENERAL INFORMATION:  
APPLICANT: Homburger et al.  
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
FILE REFERENCE: File Reference: 7326-094  
CURRENT FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 62517  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 61572  
LENGTH: 598  
TYPE: PRT  
ORGANISM: Drosophila melanogaster  
FEATURE:  
OTHER INFORMATION: Xaa means any amino acid  
US-09-270-767-61572

Query Match 69.8%; Score 37; DB 2; Length 598;  
Best Local Similarity 62.5%; Pred. No. 2.4e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 EITCVCK 8  
::|||:  
Db 121 KLTFCYCK 128

RESULT 14  
US-09-000-094-20  
Sequence 20; Application US/09000094  
Patent No. 6365160  
GENERAL INFORMATION:  
APPLICANT: WEBB, Elizabeth Ann  
MARGETS, Mary Brigid  
COX, John Cooper  
FRAZER, Ian  
MCMILLAN, Nigel Alan John  
WILLIAMS, Mark Philip  
MOLONEY, Margaret Bridget  
Holland  
EDWARDS, Scirling John  
TITLE OF INVENTION: PAPILLOMAVIRUS POLYPROTEIN CONSTRUCTS  
NUMBER OF SEQUENCES: 50  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FOLEY & LARDNER  
STREET: 3000 K Street, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20007-5109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/000,094  
FILING DATE: 21-Apr-1998  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO PCT/AU96/00473  
FILING DATE: 26-JUL-1996  
APPLICATION NUMBER: AU PN 4439/95  
FILING DATE: 27-JUL-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: BENT, Stephen A.  
REGISTRATION NUMBER: 29,768  
REFERENCE/DOCKET NUMBER: 017227/0137  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 672-5300  
TELEFAX: (202) 672-5399  
INFORMATION FOR SEQ ID NO: 20:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 368 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 20:  
US-09-000-094-20

Query Match 67.9%; Score 36; DB 2; Length 368;  
Best Local Similarity 62.5%; Pred. No. 2.2e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 EITCVCK 8  
:|:|:  
Db 28 QINCVCK 35

RESULT 15  
US-10-011-749-20  
Sequence 20; Application US/10011749  
Patent No. 6726912  
GENERAL INFORMATION:  
APPLICANT: WEBB, Elizabeth Ann  
MARGETS, Mary Brigid  
COX, John Cooper  
FRAZER, Ian  
MCMILLAN, Nigel Alan John  
WILLIAMS, Mark Philip  
MOLONEY, Margaret Bridget  
Holland  
EDWARDS, Scirling John  
TITLE OF INVENTION: PAPILLOMAVIRUS POLYPROTEIN CONSTRUCTS  
NUMBER OF SEQUENCES: 50  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FOLEY & LARDNER  
STREET: 3000 K Street, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20007-5109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/011,749  
FILING DATE: 11-Dec-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/000,094  
FILING DATE: 21-Apr-1998  
APPLICATION NUMBER: WO PCT/AU96/00473  
FILING DATE: 26-JUL-1996  
APPLICATION NUMBER: AU PN 4439/95  
FILING DATE: 27-JUL-1995

ATTORNEY/AGENT INFORMATION:  
NAME: BENT, Stephen A.  
REGISTRATION NUMBER: 29,768  
REFERENCE/DOCKET NUMBER: 017227/0137  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 672-5300  
TELEFAX: (202) 672-5399  
INFORMATION FOR SEQ ID NO: 20:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 368 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 20:  
US-10-011-749-20

Query Match 67.9%; Score 36; DB 2; Length 368;  
Best Local Similarity 62.5%; Pred. No. 2.2e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 EITCVYCK 8  
: |||:  
Db 28 QINCVFCK 35

RESULT 16  
US-09-000-094-22  
Sequence 22, Application US/09000094  
Patent No. 6365160  
GENERAL INFORMATION:  
APPLICANT: WEBB, Elizabeth Ann  
MARGERTS, Mary Brigid  
COX, John Cooper  
FRAZER, Ian  
MCMILLAN, Nigel Alan John  
WILLIAMS, Mark Philip  
MOLONEY, Margaret Bridget  
Holland  
EDWARDS, Stirling John  
TITLE OF INVENTION: PAPILLOMAVIRUS POLYPEPTIDE CONSTRUCTS  
NUMBER OF SEQUENCES: 50  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FOLEY & LARDNER  
STREET: 3000 K Street, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20007-5109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Releasee #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/000,094  
FILING DATE: 21-Apr-1998  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO PCT/AU96/00473  
FILING DATE: 26-JUL-1996  
APPLICATION NUMBER: AU PN 4439/95  
FILING DATE: 27-JUL-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: BENT, Stephen A.  
REGISTRATION NUMBER: 29,768  
REFERENCE/DOCKET NUMBER: 017227/0137  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 672-5300  
TELEFAX: (202) 672-5399  
INFORMATION FOR SEQ ID NO: 22:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 375 amino acids  
TYPE: amino acid

TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 22:  
US-09-000-094-22

Query Match 67.9%; Score 36; DB 2; Length 375;  
Best Local Similarity 62.5%; Pred. No. 2.2e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 EITCVYCK 8  
: |||:  
Db 28 QINCVFCK 35

RESULT 17  
US-10-011-749-22  
Sequence 22, Application US/10011749  
Patent No. 6726912  
GENERAL INFORMATION:  
APPLICANT: WEBB, Elizabeth Ann  
MARGERTS, Mary Brigid  
COX, John Cooper  
FRAZER, Ian  
MCMILLAN, Nigel Alan John  
WILLIAMS, Mark Philip  
MOLONEY, Margaret Bridget  
Holland  
EDWARDS, Stirling John  
TITLE OF INVENTION: PAPILLOMAVIRUS POLYPEPTIDE CONSTRUCTS  
NUMBER OF SEQUENCES: 50  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FOLEY & LARDNER  
STREET: 3000 K Street, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20007-5109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Releasee #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/011,749  
FILING DATE: 11-Dec-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/000,094  
FILING DATE: 21-Apr-1998  
APPLICATION NUMBER: WO PCT/AU96/00473  
FILING DATE: 26-JUL-1996  
APPLICATION NUMBER: AU PN 4439/95  
FILING DATE: 27-JUL-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: BENT, Stephen A.  
REGISTRATION NUMBER: 29,768  
REFERENCE/DOCKET NUMBER: 017227/0137  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 672-5300  
TELEFAX: (202) 672-5399  
INFORMATION FOR SEQ ID NO: 22:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 375 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 22:  
US-10-011-749-22

Query Match 67.9%; Score 36; DB 2; Length 375;  
Best Local Similarity 62.5%; Pred. No. 2.2e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 EITCVYCK 8  
: |||:  
Db 28 QINCVFCK 35

## RESULT 18

US-09-000-094-24  
; Sequence 24, Application US/09000094  
; Patent No. 6365160  
; GENERAL INFORMATION:  
; APPLICANT: WEBB, Elizabeth Ann  
; MARGETTS, Mary Brigid  
; COX, John Cooper  
; FRAZER, Ian  
; MCWILLAN, Nigel Alan John  
; WILLIAMS, Mark Philip  
; MOLONEY, Margaret Bridget  
; Holland  
; EDWARDS, Stirling John  
; TITLE OF INVENTION: PAPILLOMAVIRUS POLYPROTEIN CONSTRUCTS  
; NUMBER OF SEQUENCES: 50  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: FOLEY & LARDNER  
; STREET: 3000 K Street, N.W.  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: U.S.A.  
; ZIP: 20007-5109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/000.094  
; FILING DATE: 21-Apr-1998  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: WO PCT/AU96/00473  
; FILING DATE: 26-JUL-1996  
; APPLICATION NUMBER: AU PN 4439/95  
; FILING DATE: 27-JUL-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: BENT, Stephen A.  
; REGISTRATION NUMBER: 29,768  
; REFERENCE/DOCKET NUMBER: 017227/0137  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202) 672-5300  
; TELEFAX: (202) 672-5399  
; INFORMATION FOR SEQ ID NO: 24:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 465 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; SEQUENCE DESCRIPTION: SEQ ID NO: 24:  
US-09-000-094-24

Query Match 67.9%; Score 36; DB 2; Length 465;  
Best Local Similarity 62.5%; Pred. No. 2.7e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 EITCVYCK 8  
: |||:  
Db 28 QINCVFCK 35

RESULT 19  
US-10-011-749-24  
; Sequence 24, Application US/10011749  
; Patent No. 6726512  
; GENERAL INFORMATION:  
; APPLICANT: WEBB, Elizabeth Ann

MARGETTS, Mary Brigid  
COX, John Cooper  
FRAZER, Ian  
MCWILLAN, Nigel Alan John  
WILLIAMS, Mark Philip  
MOLONEY, Margaret Bridget  
Holland  
EDWARDS, Stirling John  
; TITLE OF INVENTION: PAPILLOMAVIRUS POLYPROTEIN CONSTRUCTS  
; NUMBER OF SEQUENCES: 50  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: FOLEY & LARDNER  
; STREET: 3000 K Street, N.W.  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: U.S.A.  
; ZIP: 20007-5109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/10/011,749  
; FILING DATE: 11-Dec-2001  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/09/000.094  
; FILING DATE: 21-Apr-1998  
; APPLICATION NUMBER: WO PCT/AU96/00473  
; FILING DATE: 26-JUL-1996  
; APPLICATION NUMBER: AU PN 4439/95  
; FILING DATE: 27-JUL-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: BENT, Stephen A.  
; REGISTRATION NUMBER: 29,768  
; REFERENCE/DOCKET NUMBER: 017227/0137  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202) 672-5300  
; TELEFAX: (202) 672-5399  
; INFORMATION FOR SEQ ID NO: 24:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 465 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; SEQUENCE DESCRIPTION: SEQ ID NO: 24:  
US-10-011-749-24

Query Match 67.9%; Score 36; DB 2; Length 465;  
Best Local Similarity 62.5%; Pred. No. 2.7e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 EITCVYCK 8  
: |||:  
Db 28 QINCVFCK 35

RESULT 20  
US-09-000-094-46  
; Sequence 46, Application US/09000094  
; Patent No. 6365160  
; GENERAL INFORMATION:  
; APPLICANT: WEBB, Elizabeth Ann  
; MARGETTS, Mary Brigid  
; COX, John Cooper  
; FRAZER, Ian  
; MCWILLAN, Nigel Alan John  
; WILLIAMS, Mark Philip  
; MOLONEY, Margaret Bridget  
; Holland  
; EDWARDS, Stirling John  
; TITLE OF INVENTION: PAPILLOMAVIRUS POLYPROTEIN CONSTRUCTS

```

;
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/000,094
; FILING DATE: 21-Apr-1998
; CLASSIFICATION: <Unknown>
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO PCT/AU96/00473
; FILING DATE: 26-JUL-1996
; APPLICATION NUMBER: AU PN 4439/95
; FILING DATE: 27-JUL-1995
;
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 017227/0137
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 672-5300
; TELEFAX: (202) 672-5399
;
; INFORMATION FOR SEQ ID NO: 46:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1587 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 46:
US-09-000-094-46

Query Match      67.9% Score 36; DB 2; Length 1587;
Best Local Similarity 62.5%; Pred. No. 8.3e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY      1 BITCYCK 8
      : |||:
Db      714 QINCVFCK 721

RESULT 21
US-10-011-749-46
; Sequence 46, Application US/10011749
; Patent No. 6726912
; GENERAL INFORMATION:
; APPLICANT: WEBB, Elizabeth Ann
; MARGETTS, Mary Bridgid
; COX, John Cooper
; FRAZER, Ian
; MCWILLIAN, Nigel Alan John
; WILLIAMS, Mark Philip
; MOLONEY, Margaret Bridget
; Holland
; EDWARDS, Stirling John
; TITLE OF INVENTION: PAPILLOMAVIRUS POLYPROTEIN CONSTRUCTS
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

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```

;
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/011,749
; FILING DATE: 11-Dec-2001
; CLASSIFICATION: <Unknown>
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/000,094
; FILING DATE: 21-Apr-1998
; APPLICATION NUMBER: WO PCT/AU96/00473
; FILING DATE: 26-JUL-1996
; APPLICATION NUMBER: AU PN 4439/95
; FILING DATE: 27-JUL-1995
;
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 017227/0137
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 672-5300
; TELEFAX: (202) 672-5399
;
; INFORMATION FOR SEQ ID NO: 46:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1587 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 46:
US-10-011-749-46

Query Match      67.9% Score 36; DB 2; Length 1587;
Best Local Similarity 62.5%; Pred. No. 8.3e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY      1 BITCYCK 8
      : |||:
Db      714 QINCVFCK 721

RESULT 22
US-09-949-016-9908
; Sequence 9908, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9908
; LENGTH: 3730
; TYPE: prt
; ORGANISM: Human
US-09-949-016-9908

Query Match      67.9% Score 36; DB 2; Length 3730;
Best Local Similarity 71.4%; Pred. No. 1.8e+03;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY      3 TCVCYCK 9
      : ||||:
Db      727 SCVCYCKS 733

RESULT 23

```

US-08-159-339A-570  
; Sequence 570, Application US/08159339A  
; Patent No. 6037135  
; GENERAL INFORMATION:  
; APPLICANT: Kubo, Ralph T.  
; APPLICANT: Grey, Howard M.  
; APPLICANT: Sette, Alessandro  
; APPLICANT: Celis, Escehan  
; TITLE OF INVENTION: HLA Binding peptides and Their  
; TITLE OF INVENTION: Uses  
; NUMBER OF SEQUENCES: 1254  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend and Crew LLP  
; STREET: Two Embarcadero Center, Eighth Floor  
; CITY: San Francisco  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94111-3834  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FASTSEQ for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/159,339A  
; FILING DATE: 29-NOV-1993  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/926,666  
; FILING DATE: 07-AUG-1992  
; APPLICATION NUMBER: US 08/027,746  
; FILING DATE: 05-MAR-1993  
; APPLICATION NUMBER: US 08/103,396  
; FILING DATE: 06-AUG-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Weber, Ellen Lauver  
; REGISTRATION NUMBER: 32,762  
; REFERENCE/DOCKET NUMBER: 018623-005030US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415) 576-0200  
; TELEFAX: (415) 576-0300  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 570:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 9 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-159-339A-570

Query Match 66.0%; Score 35; DB 2; Length 9;  
Best Local Similarity 71.4%; Pred. No. 4.6e+05;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVYCK 8  
: |||||  
Db 3 LECVYCK 9

RESULT 24  
US-08-159-339A-573  
; Sequence 573, Application US/08159339A  
; Patent No. 6037135  
; GENERAL INFORMATION:  
; APPLICANT: Kubo, Ralph T.  
; APPLICANT: Grey, Howard M.  
; APPLICANT: Sette, Alessandro  
; APPLICANT: Celis, Escehan  
; TITLE OF INVENTION: HLA Binding peptides and Their  
; TITLE OF INVENTION: Uses  
; NUMBER OF SEQUENCES: 1254  
; CORRESPONDENCE ADDRESS:

ADDRESSEE: Townsend and Townsend and Crew LLP  
; STREET: Two Embarcadero Center, Eighth Floor  
; CITY: San Francisco  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94111-3834  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FASTSEQ for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/159,339A  
; FILING DATE: 29-NOV-1993  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/926,666  
; FILING DATE: 07-AUG-1992  
; APPLICATION NUMBER: US 08/027,746  
; FILING DATE: 05-MAR-1993  
; APPLICATION NUMBER: US 08/103,396  
; FILING DATE: 06-AUG-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Weber, Ellen Lauver  
; REGISTRATION NUMBER: 32,762  
; REFERENCE/DOCKET NUMBER: 018623-005030US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415) 576-0200  
; TELEFAX: (415) 576-0300  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 573:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 10 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-159-339A-573

Query Match 66.0%; Score 35; DB 2; Length 10;  
Best Local Similarity 71.4%; Pred. No. 12;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVYCK 8  
: |||||  
Db 4 LECVYCK 10

RESULT 25  
US-08-934-915-160  
; Sequence 160, Application US/08934915  
; Patent No. 5932412  
; GENERAL INFORMATION:  
; APPLICANT: DILLNER, JOAKIM  
; APPLICANT: DILLNER, LENA  
; APPLICANT: CHENG, HWEI-MING  
; TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN  
; TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,  
; TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,  
; TITLE OF INVENTION: USEFUL IN IMMUNOSSAY FOR  
; TITLE OF INVENTION: DIAGNOSTIC PURPOSES  
; NUMBER OF SEQUENCES: 193  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MASON & ASSOCIATES, P.A.  
; STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500  
; CITY: CLEARWATER  
; STATE: FLORIDA  
; COUNTRY: U.S.A.  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: Windows 3.0  
; SOFTWARE: Microsoft Word 6.0



```

;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/934,915
; FILING DATE: 22-SEP-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/949,836
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: LOUISE A. FOUTCH
; REGISTRATION NUMBER: 37,133
; REFERENCE/DOCKET NUMBER: 1946.6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 813-538-3800
; TELEFAX: 813-538-3820
;
; INFORMATION FOR SEQ ID NO: 160:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
;
US-08-934-915-160

Query Match          66.0%; Score 35; DB 1; Length 20;
Best Local Similarity 71.4%; Pred. No. 22;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 ITCYCK 8
       : |||||
Db      4 LECYCK 10

RESULT 26
US-09-980-523A-4
; Sequence 4, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 AND E7
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
; FILE REFERENCE: WO/01/00115
; CURRENT APPLICATION NUMBER: US/09/980,523A
; CURRENT FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: PCT/FR00/01513
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: FR 99/07012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Human Papillomavirus
;
US-09-980-523A-4

Query Match          66.0%; Score 35; DB 2; Length 30;
Best Local Similarity 71.4%; Pred. No. 32;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 ITCYCK 8
       : |||||
Db      21 LECYCK 27

RESULT 27
US-09-701-080C-18
; Sequence 18, Application US/09701080C
; Patent No. 6864054
```

```

; GENERAL INFORMATION:
; APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
; TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 F
; TITLE OF INVENTION: TRANSCRIPTIONAL REGULATION
; FILE REFERENCE: N73477C GCM
; CURRENT APPLICATION NUMBER: US/09/701,080C
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: GB 9811303.8
; PRIOR FILING DATE: 1998-05-26
; PRIOR APPLICATION NUMBER: GB 9900157.0
; PRIOR FILING DATE: 1999-01-05
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
;
US-09-701-080C-18

Query Match          66.0%; Score 35; DB 2; Length 151;
Best Local Similarity 71.4%; Pred. No. 1,46+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 ITCYCK 8
       : |||||
Db      28 LECYCK 34

RESULT 28
US-09-980-523A-2
; Sequence 2, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 AND E7
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
; FILE REFERENCE: WO/01/00115
; CURRENT APPLICATION NUMBER: US/09/980,523A
; CURRENT FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: PCT/FR00/01513
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: FR 99/07012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human Papillomavirus
;
US-09-980-523A-2

Query Match          66.0%; Score 35; DB 2; Length 158;
Best Local Similarity 71.4%; Pred. No. 1,56+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 ITCYCK 8
       : |||||
Db      35 LECYCK 41

RESULT 29
US-08-316-239B-3
; Sequence 3, Application US/08316239B
; Patent No. 5679509
; GENERAL INFORMATION:
; APPLICANT: Wheeler, Cosette M.
; APPLICANT: Parmentier, Cheryl A.
; TITLE OF INVENTION: Methods and a Diagnostic Aid for
```

```

; TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
; TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jagtiani & Associates
; STREET: 6126 Rocky Way Court
; CITY: Centreville
; STATE: VA
; COUNTRY: USA
; ZIP: 20120-3400
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/316,239B
; FILING DATE: 30-SEP-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jagtiani, Ajay A.
; REGISTRATION NUMBER: 35,205
; REFERENCE/DOCKET NUMBER: UNME-0001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 817-9453
; TELEFAX: (703) 803-9387
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 162 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; US-08-316-239B-3

Query Match          66.0%; Score 35; DB 1; Length 162;
Best Local Similarity 71.4%; Pred. No. 1.5e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 ITCVCK 8
Db      35 LECVCK 41

RESULT 30
; US-08-316-239B-4
; Sequence 4, Application US/08316239B
; Patent No. 5679509
; GENERAL INFORMATION:
; APPLICANT: Wheeler, Cosette M.
; TITLE OF INVENTION: Methods and a Diagnostic Aid for
; TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
; TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
; TITLE OF INVENTION: Cervical Cancer
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jagtiani & Associates
; STREET: 6126 Rocky Way Court
; CITY: Centreville
; STATE: VA
; COUNTRY: USA
; ZIP: 20120-3400
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/316,239B
; FILING DATE: 30-SEP-1994
```

```

; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jagtiani, Ajay A.
; REGISTRATION NUMBER: 35,205
; REFERENCE/DOCKET NUMBER: UNME-0001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 817-9453
; TELEFAX: (703) 803-9387
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 162 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; US-08-316-239B-4

Query Match          66.0%; Score 35; DB 1; Length 162;
Best Local Similarity 71.4%; Pred. No. 1.5e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 ITCVCK 8
Db      35 LECVCK 41

RESULT 31
; US-08-860-165-14
; Sequence 14, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patent Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
; US-08-860-165-14

Query Match          66.0%; Score 35; DB 2; Length 172;
Best Local Similarity 71.4%; Pred. No. 1.6e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 ITCVCK 8
Db      104 LECVCK 110

RESULT 32
; US-09-359-382-14
; Sequence 14, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
```

FILE REFERENCE: 017227/0148  
CURRENT APPLICATION NUMBER: US/09/359,382  
CURRENT FILING DATE: 1999-07-23  
EARLIER APPLICATION NUMBER: US 08/660,165  
EARLIER FILING DATE: 1997-09-22  
EARLIER APPLICATION NUMBER: PCT/AU95/00868  
EARLIER FILING DATE: 1995-12-20  
EARLIER APPLICATION NUMBER: AU PNO157/94  
EARLIER FILING DATE: 1994-12-20  
NUMBER OF SEQ ID NOS: 27  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 14  
LENGTH: 172  
TYPE: PRT  
ORGANISM: Human papillomavirus type 16  
US-09-359-382-14

Query Match 66.0%; Score 35; DB 2; Length 172;  
Best Local Similarity 71.4%; Pred. No. 1.6e+02;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCYCK 8  
: |||||  
Db 104 LECYCK 110

RESULT 33  
US-08-117-083-10  
Sequence 10, Application US/08117083  
Patent No. 5719054  
GENERAL INFORMATION:  
APPLICANT: Bourenell, Michael E.  
APPLICANT: Ingulis, Stephen C.  
APPLICANT: Munro, Alan J.  
TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human  
TITLE OF INVENTION: Papilloma Virus Proteins  
NUMBER OF SEQUENCES: 70  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Walter H. Dreger  
STREET: 4 Embarcadero Center, Suite 3400  
CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94111

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/117,083  
FILING DATE: 10-SEP-1993  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Dreger, Walter H.  
REGISTRATION NUMBER: 24,190  
REFERENCE/DOCKET NUMBER: A-58763  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-781-1989  
TELEFAX: 415-398-3249  
TELEX: 910 277299  
INFORMATION FOR SEQ ID NO: 10:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 182 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
NAME/KEY: Protein  
LOCATION: 1..182  
OTHER INFORMATION: /note="Xaa refers to stop codon in  
OTHER INFORMATION: the open reading frame."

US-08-117-083-10

Query Match 66.0%; Score 35; DB 1; Length 182;  
Best Local Similarity 71.4%; Pred. No. 1.7e+02;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCYCK 8  
: |||||  
Db 36 LECYCK 42

RESULT 34  
US-09-270-767-58555  
Sequence 58555, Application US/09270767  
Patent No. 6703491  
GENERAL INFORMATION:  
APPLICANT: Homburger et al.  
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
FILE REFERENCE: File Reference: 7326-094  
CURRENT APPLICATION NUMBER: US/09/270,767  
CURRENT FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 62517  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 58555  
LENGTH: 189  
TYPE: PRT  
ORGANISM: Drosophila melanogaster  
FEATURE:  
OTHER INFORMATION: Xaa means any amino acid  
US-09-270-767-58555

Query Match 66.0%; Score 35; DB 2; Length 189;  
Best Local Similarity 75.0%; Pred. No. 1.7e+02;  
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 ITCYCK 8  
: |||||  
Db 65 EHCYCK 72

RESULT 35  
US-09-462-993-1  
Sequence 1, Application US/09462993  
Patent No. 6884786  
GENERAL INFORMATION:  
APPLICANT: KIENY, Marie-Paule  
APPLICANT: BALLOU, Jean-Marc  
APPLICANT: BIZOUANE, Nadine  
TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC  
TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION  
FILE REFERENCE: 017753-122  
CURRENT APPLICATION NUMBER: US/09/462,993  
CURRENT FILING DATE: 2000-04-17  
PRIOR APPLICATION NUMBER: PCT/FR98/01576  
PRIOR FILING DATE: 1998-07-17  
PRIOR APPLICATION NUMBER: FR 97/09152  
PRIOR FILING DATE: 1997-07-18  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: PatentIn Ver. 2.2  
SEQ ID NO 1  
LENGTH: 243  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Derived from  
OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein  
OTHER INFORMATION: fused F protein signals, clone E6\*TMF.  
US-09-462-993-1

Query Match 66.0%; Score 35; DB 2; Length 243;  
Best Local Similarity 71.4%; Pred. No. 2.2e+02;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVCK 8  
: |||||  
Db 63 LECVCK 69

RESULT 36  
US-09-270-767-32820  
; Sequence 32820, Application US/09270767  
; Patent No. 6703491  
; GENERAL INFORMATION:  
; APPLICANT: Homburger et al.  
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
; FILE REFERENCE: File Reference: 7326-094  
; CURRENT APPLICATION NUMBER: US/09/270,767  
; CURRENT FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 62517  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 32820  
; LENGTH: 262  
; TYPE: PRT  
; ORGANISM: Drosophila melanogaster  
US-09-270-767-32820

Query Match 66.0%; Score 35; DB 2; Length 262;  
Best Local Similarity 83.3%; Pred. No. 2,3e+02;  
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 CVCYCK 9  
: |||||  
Db 25 CVCYCK 30

RESULT 37  
US-08-860-165-10  
; Sequence 10, Application US/08860165A  
; Patent No. 6004557  
; GENERAL INFORMATION:  
; APPLICANT: EDWARDS, Stirling John  
; APPLICANT: COX, John Cooper  
; APPLICANT: WEBB, Elizabeth Ann  
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS  
; FILE REFERENCE: 17227/130  
; CURRENT APPLICATION NUMBER: US/08/860,165A  
; CURRENT FILING DATE: 1997-09-22  
; EARLIER APPLICATION NUMBER: PCT/AU95/00868  
; EARLIER FILING DATE: 1995-12-20  
; EARLIER APPLICATION NUMBER: AU PN0157  
; EARLIER FILING DATE: 1994-12-20  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 10  
; LENGTH: 266  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion  
US-08-860-165-10

Query Match 66.0%; Score 35; DB 2; Length 266;  
Best Local Similarity 71.4%; Pred. No. 2,4e+02;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVCK 8  
: |||||  
Db 35 LECVCK 41

RESULT 38  
US-09-359-382-10  
; Sequence 10, Application US/09359382  
; Patent No. 6306397  
; GENERAL INFORMATION:

; APPLICANT: EDWARDS, Stirling John  
; APPLICANT: COX, John Cooper  
; APPLICANT: WEBB, Elizabeth Ann  
; APPLICANT: FRAZER, Ian  
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS  
; FILE REFERENCE: 017227/0148  
; CURRENT APPLICATION NUMBER: US/09/359,382  
; CURRENT FILING DATE: 1999-07-23  
; EARLIER APPLICATION NUMBER: US 08/860,165  
; EARLIER FILING DATE: 1997-09-22  
; EARLIER APPLICATION NUMBER: PCT/AU95/00868  
; EARLIER FILING DATE: 1995-12-20  
; EARLIER APPLICATION NUMBER: AU PN0157/94  
; EARLIER FILING DATE: 1994-12-20  
; NUMBER OF SEQ ID NOS: 27  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 10  
; LENGTH: 266  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-09-359-382-10

Query Match 66.0%; Score 35; DB 2; Length 266;  
Best Local Similarity 71.4%; Pred. No. 2,4e+02;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVCK 8  
: |||||  
Db 35 LECVCK 41

RESULT 39  
US-09-367-309A-1  
; Sequence 1, Application US/09367309A  
; Patent No. 6428807  
; GENERAL INFORMATION:  
; APPLICANT: MACFARLAN, RODERICK I.  
; APPLICANT: MALITAROS, JIM  
; TITLE OF INVENTION: CHEATING IMMUNOSTIMULATING COMPLEXES  
; FILE REFERENCE: 017227/0149  
; CURRENT APPLICATION NUMBER: US/09/367,309A  
; CURRENT FILING DATE: 1999-08-11  
; PRIOR APPLICATION NUMBER: PCT/AU98/00080  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: AU PO 5178  
; PRIOR FILING DATE: 1997-02-19  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: Patentln Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 266  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-09-367-309A-1

Query Match 66.0%; Score 35; DB 2; Length 266;  
Best Local Similarity 71.4%; Pred. No. 2,4e+02;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVCK 8  
: |||||  
Db 35 LECVCK 41

RESULT 40  
US-09-485-885-4  
; Sequence 4, Application US/09485885  
; Patent No. 6342224  
; GENERAL INFORMATION:  
; APPLICANT: Bruck, Claudine  
; APPLICANT: Cabezon Silva, Teresa  
; APPLICANT: Delisse, Anne-Marie Eva Fernande  
; APPLICANT: Gerard, Catherine Marie Christaline  
; APPLICANT: Lombardo-Bencheikh, Angela

```

; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
;
US-09-485-885-4

Query Match
Best Local Similarity 66.0%; Score 35; DB 2; Length 273;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVYCK 8
Db 141 LECVYCK 147

RESULT 41
US-09-270-767-40146
; Sequence 40146, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 40146
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
;
US-09-270-767-40146

Query Match
Best Local Similarity 66.0%; Score 35; DB 2; Length 273;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 4 CVYCKT 9
Db 200 CVYCKT 205

RESULT 42
US-09-270-767-55362
; Sequence 55362, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 55362
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
;
US-09-270-767-55362

Query Match
Best Local Similarity 66.0%; Score 35; DB 2; Length 273;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 4 CVYCKT 9
Db 200 CVYCKT 205

RESULT 43
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapien
;
US-09-485-885-10

Query Match
Best Local Similarity 66.0%; Score 35; DB 2; Length 292;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVYCK 8
Db 160 LECVYCK 166

RESULT 44
US-09-270-767-43213
; Sequence 43213, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 43213
; LENGTH: 352
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
;
US-09-270-767-43213

Query Match
Best Local Similarity 66.0%; Score 35; DB 2; Length 352;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 EITCVYCK 8
Db 65 EITCKYCK 72
```

RESULT 45  
US-09-485-885-6  
; Sequence 6, Application US/09485885  
; Patent No. 6342224  
; GENERAL INFORMATION:  
; APPLICANT: Bruck, Claudine  
; APPLICANT: Cabazon Silva, Teresa  
; APPLICANT: Delisee, Anne-Marie Eva Bernande  
; APPLICANT: Gerard, Catherine Marie Ghislaine  
; APPLICANT: Lombardo-Bencheikh, Angela  
; TITLE OF INVENTION: Vaccine  
; FILE REFERENCE: B45107  
; CURRENT APPLICATION NUMBER: US/09/485,885  
; CURRENT FILING DATE: 2000-02-18  
; PRIOR APPLICATION NUMBER: PCT/EP98/05285  
; PRIOR FILING DATE: 1998-08-17  
; PRIOR APPLICATION NUMBER: GB 9717953.5  
; PRIOR FILING DATE: 1997-08-22  
; NUMBER OF SEQ ID NOS: 23  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 6  
; LENGTH: 371  
; TYPE: PRT  
; ORGANISM: Homo sapien  
US-09-485-885-6

Query Match 66.0%; Score 35; DB 2; Length 371;  
Best Local Similarity 71.4%; Pred. No. 3.2e+02;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVYCK 8  
: |||||  
Db 141 LECVYCK 147

RESULT 46  
US-09-485-885-14  
; Sequence 14, Application US/09485885  
; Patent No. 6342224  
; GENERAL INFORMATION:  
; APPLICANT: Bruck, Claudine  
; APPLICANT: Cabazon Silva, Teresa  
; APPLICANT: Delisee, Anne-Marie Eva Bernande  
; APPLICANT: Gerard, Catherine Marie Ghislaine  
; APPLICANT: Lombardo-Bencheikh, Angela  
; TITLE OF INVENTION: Vaccine  
; FILE REFERENCE: B45107  
; CURRENT APPLICATION NUMBER: US/09/485,885  
; CURRENT FILING DATE: 2000-02-18  
; PRIOR APPLICATION NUMBER: PCT/EP98/05285  
; PRIOR FILING DATE: 1998-08-17  
; PRIOR APPLICATION NUMBER: GB 9717953.5  
; PRIOR FILING DATE: 1997-08-22  
; NUMBER OF SEQ ID NOS: 23  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 14  
; LENGTH: 390  
; TYPE: PRT  
; ORGANISM: Homo sapien  
US-09-485-885-14

Query Match 66.0%; Score 35; DB 2; Length 390;  
Best Local Similarity 71.4%; Pred. No. 3.3e+02;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVYCK 8  
: |||||  
Db 160 LECVYCK 166

RESULT 47  
US-09-717-364A-27

; Sequence 27, Application US/09717364A  
; Patent No. 6663872  
; GENERAL INFORMATION:  
; APPLICANT: Pitkovski, Jacob  
; APPLICANT: Muelen, Margalite  
; APPLICANT: Koren, Ziv Reil  
; APPLICANT: Krisspel, Simcha  
; APPLICANT: Shmueli, Esther  
; APPLICANT: Peretz, Yifat  
; APPLICANT: Gutier, Bezael  
; APPLICANT: Galili, Gilad  
; APPLICANT: Michael, Amnon  
; APPLICANT: Goldberg, Doron  
; TITLE OF INVENTION: HEMORRHAGIC ENTERITIS VIRUS DNA SEQUENCES, PROTEINS ENCODED THEREOF  
; FILE REFERENCE: 1567/63655  
; CURRENT APPLICATION NUMBER: US/09/717,364A  
; CURRENT FILING DATE: 2000-11-20  
; PRIOR APPLICATION NUMBER: IL124567  
; PRIOR FILING DATE: 1998-05-20  
; PRIOR APPLICATION NUMBER: PCT/IL9900268  
; PRIOR FILING DATE: 1999-05-19  
; NUMBER OF SEQ ID NOS: 42  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 27  
; LENGTH: 1112  
; TYPE: PRT  
; ORGANISM: hemorhagic enteritis virus  
US-09-717-364A-27

Query Match 66.0%; Score 35; DB 2; Length 1112;  
Best Local Similarity 75.0%; Pred. No. 8.6e+02;  
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 EITCVYCK 8  
: |||||  
Db 994 EITCTYCK 1001

RESULT 48  
US-08-159-339A-86  
; Sequence 86, Application US/08159339A  
; Patent No. 6037135  
; GENERAL INFORMATION:  
; APPLICANT: Kubo, Ralph T.  
; APPLICANT: Grey, Howard M.  
; APPLICANT: Sette, Alessandro  
; APPLICANT: Cells, Esteban  
; TITLE OF INVENTION: HLA Binding peptides and Their  
; TITLE OF INVENTION: Uses  
; NUMBER OF SEQUENCES: 1254  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend and Crew LLP  
; STREET: Two Embarcadero Center, Eighth Floor  
; CITY: San Francisco  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94111-3834  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/159,339A  
; FILING DATE: 29-NOV-1993  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/926,666  
; FILING DATE: 07-AUG-1992  
; APPLICATION NUMBER: US 08/027,746  
; FILING DATE: 05-MAR-1993  
; APPLICATION NUMBER: US 08/103,396

FILING DATE: 06-AUG-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Weber, Ellen Lauver  
REGISTRATION NUMBER: 32,762  
REFERENCE/DOCKET NUMBER: 018623-005030US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
TELEX:  
INFORMATION FOR SEQ ID NO: 86:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 10 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-159-339A-86

Query Match 64.2%; Score 34; DB 2; Length 10;  
Best Local Similarity 100.0%; Pred. No. 17;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EITCVY 6  
Db 5 EITCVY 10

RESULT 49  
US-08-159-339A-575  
Sequence 575, Application US/08159339A  
Patent No. 6037135  
GENERAL INFORMATION:  
APPLICANT: Kubo, Ralph T.  
APPLICANT: Grey, Howard M.  
APPLICANT: Sette, Alessandro  
APPLICANT: Celis, Esben  
TITLE OF INVENTION: HLA Binding peptides and their  
TITLE OF INVENTION: Uses  
NUMBER OF SEQUENCES: 1254  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/159,339A  
FILING DATE: 29-NOV-1993  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/926,666  
FILING DATE: 07-AUG-1992  
APPLICATION NUMBER: US 08/027,746  
FILING DATE: 05-MAR-1993  
APPLICATION NUMBER: US 08/103,396  
FILING DATE: 06-AUG-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Weber, Ellen Lauver  
REGISTRATION NUMBER: 32,762  
REFERENCE/DOCKET NUMBER: 018623-005030US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
TELEX:  
INFORMATION FOR SEQ ID NO: 575:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 10 amino acids

TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-159-339A-575

Query Match 64.2%; Score 34; DB 2; Length 10;  
Best Local Similarity 100.0%; Pred. No. 17;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 CVYCK 8  
Db 1 CVYCK 5

RESULT 50  
US-09-288-143-94  
Sequence 94, Application US/09288143  
Patent No. 6433139  
GENERAL INFORMATION:  
APPLICANT: Brewer et al.  
TITLE OF INVENTION: 53 Human Secreted Proteins  
FILE REFERENCE: P2018P1  
CURRENT APPLICATION NUMBER: US/09/288,143  
CURRENT FILING DATE: 1999-04-08  
EARLIER APPLICATION NUMBER: PCT/US98/21142  
EARLIER FILING DATE: 1998-10-08  
EARLIER APPLICATION NUMBER: 60/061,463  
EARLIER FILING DATE: 1997-10-09  
EARLIER APPLICATION NUMBER: 60/061,529  
EARLIER FILING DATE: 1997-10-09  
EARLIER APPLICATION NUMBER: 60/071,498  
EARLIER FILING DATE: 1997-10-09  
EARLIER APPLICATION NUMBER: 60/061,527  
EARLIER FILING DATE: 1997-10-09  
EARLIER APPLICATION NUMBER: 60/061,536  
EARLIER FILING DATE: 1997-10-09  
EARLIER APPLICATION NUMBER: 60/061,532  
EARLIER FILING DATE: 1997-10-09  
NUMBER OF SEQ ID NOS: 219  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 94  
LENGTH: 25  
TYPE: PRT  
ORGANISM: Homo sapiens  
NAME/KEY: SITE  
LOCATION: (25)  
OTHER INFORMATION: Xaa equals stop translation  
US-09-288-143-94

Query Match 64.2%; Score 34; DB 2; Length 25;  
Best Local Similarity 100.0%; Pred. No. 40;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 TCVCY 7  
Db 3 TCVCY 7

Search completed: May 5, 2006, 06:24:02  
Job time: 23.9 secs

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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:39:55 ; Search time 56.3 Seconds  
(without alignments)  
66.793 Million cell updates/sec

Title: US-08-170-344-24  
Perfect score: 53  
Sequence: 1 EITGVCKT 9

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database :  
1: /cgn2\_6/ptodata/1/pubppaa/US07\_PUBCOMB.rep:\*  
2: /cgn2\_6/ptodata/1/pubppaa/US08\_PUBCOMB.rep:\*  
3: /cgn2\_6/ptodata/1/pubppaa/US09\_PUBCOMB.rep:\*  
4: /cgn2\_6/ptodata/1/pubppaa/US10A\_PUBCOMB.rep:\*  
5: /cgn2\_6/ptodata/1/pubppaa/US10B\_PUBCOMB.rep:\*  
6: /cgn2\_6/ptodata/1/pubppaa/US11\_PUBCOMB.rep:\*  
  
Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	53	100.0	42	5	US-10-751-845-152
2	53	100.0	119	5	US-10-751-845-159
3	53	100.0	158	5	US-10-800-023-27
4	53	100.0	158	6	US-11-021-949-28
5	53	100.0	172	4	US-10-472-724-6
6	53	100.0	236	5	US-10-751-845-157
7	53	100.0	237	5	US-10-751-845-158
8	53	100.0	261	5	US-10-751-845-160
9	53	100.0	278	4	US-10-000-903-21
10	53	100.0	288	4	US-10-899-771-21
11	53	100.0	383	4	US-10-000-903-23
12	53	100.0	383	5	US-10-899-771-23
13	45	84.9	625	4	US-10-408-765A-2049
14	45	84.9	734	4	US-10-408-765A-324
15	45	84.9	734	5	US-10-723-860-297
16	45	84.9	735	4	US-10-408-765A-2050
17	42	79.2	158	6	US-11-021-949-361
18	41	77.4	314	3	US-09-949-029-78
19	41	77.4	314	6	US-11-097-143-31539
20	40	75.5	677	5	US-10-450-763-37731
21	40	75.5	727	4	US-10-108-260A-3060
22	40	75.5	3572	4	US-10-471-450-16
23	39	73.6	10	5	US-10-751-845-139
24	39	73.6	151	6	US-11-021-949-24
25	39	73.6	230	3	US-09-815-242-13432
26	39	73.6	290	3	US-09-815-242-13659
27	39	73.6	290	3	US-09-769-787-153

28	39	73.6	290	4	US-10-282-122A-74226	Sequence 74226, A
29	39	73.6	305	5	US-10-472-928-4594	Sequence 4594, Ap
30	39	73.6	305	5	US-10-617-320-2649	Sequence 2649, Ap
31	38	71.7	95	4	US-10-425-115-276810	Sequence 276810, A
32	38	71.7	123	4	US-10-425-115-276807	Sequence 276807, A
33	38	71.7	150	6	US-11-021-949-27	Sequence 27, Appl
34	38	71.7	151	6	US-11-021-949-25	Sequence 26, Appl
35	38	71.7	151	6	US-11-021-949-25	Sequence 25, Appl
36	38	71.7	158	6	US-11-021-949-29	Sequence 29, Appl
37	38	71.7	1366	6	US-11-097-143-32502	Sequence 23502, A
38	37	69.8	45	4	US-10-424-599-200471	Sequence 200471, A
39	37	69.8	52	4	US-10-424-599-193040	Sequence 193040, A
40	37	69.8	55	4	US-10-425-114-47430	Sequence 44730, A
41	37	69.8	55	4	US-10-425-115-191172	Sequence 191172, A
42	37	69.8	64	4	US-10-437-963-139053	Sequence 139053, A
43	37	69.8	70	4	US-10-424-599-249892	Sequence 249892, A
44	37	69.8	137	4	US-10-437-963-124482	Sequence 124482, A
45	37	69.8	153	6	US-10-369-493-11069	Sequence 11069, A
46	37	69.8	155	6	US-11-021-949-22	Sequence 22, Appl
47	37	69.8	155	6	US-11-021-949-23	Sequence 23, Appl
48	37	69.8	183	3	US-09-895-913A-330	Sequence 330, App
49	37	69.8	328	3	US-09-815-242-11324	Sequence 11324, A
50	37	69.8	328	4	US-10-282-122A-58706	Sequence 58706, A
51	37	69.8	328	4	US-10-335-977-6995	Sequence 6995, Ap
52	37	69.8	330	4	US-10-282-122A-54453	Sequence 54453, A
53	37	69.8	331	4	US-10-335-977-6996	Sequence 6996, Ap
54	37	69.8	68	4	US-10-424-599-239799	Sequence 239799, A
55	36	67.9	136	4	US-10-114-893-170	Sequence 170, App
56	36	67.9	148	6	US-10-437-963-103599	Sequence 103599, A
57	36	67.9	149	6	US-11-021-949-359	Sequence 359, App
58	36	67.9	149	6	US-11-021-949-14	Sequence 14, Appl
59	36	67.9	149	6	US-11-021-949-18	Sequence 18, Appl
60	36	67.9	222	4	US-10-425-115-317438	Sequence 317438, A
61	36	67.9	405	3	US-09-768-781-6	Sequence 6, Appl1
62	36	67.9	509	5	US-10-450-763-53674	Sequence 53674, A
63	36	67.9	509	6	US-11-097-143-39006	Sequence 39006, A
64	36	67.9	650	6	US-10-994-727-6	Sequence 6, Appl1
65	36	67.9	1325	4	US-10-425-115-317439	Sequence 317439, A
66	36	67.9	1987	6	US-11-097-143-10041	Sequence 10041, A
67	36	67.9	2054	5	US-10-450-763-53682	Sequence 53682, A
68	36	67.9	2273	5	US-10-450-763-53663	Sequence 53663, A
69	36	67.9	5909	5	US-10-450-763-53654	Sequence 53654, A
70	36	67.9	6619	5	US-10-450-763-53688	Sequence 53688, A
71	36	67.9	15	4	US-10-476-570-23	Sequence 23, Appl
72	35	66.0	21	4	US-10-476-570-24	Sequence 24, Appl
73	35	66.0	15	4	US-10-476-570-10	Sequence 10, Appl
74	35	66.0	21	4	US-10-476-570-53	Sequence 53, Appl
75	35	66.0	30	5	US-10-476-570-53	Sequence 4, Appl1
76	35	66.0	30	5	US-10-858-384-4	Sequence 9, Appl1
77	35	66.0	32	4	US-10-476-570-9	Sequence 19, Appl
78	35	66.0	33	4	US-10-476-570-19	Sequence 307694, A
79	35	66.0	64	4	US-10-425-115-307694	Sequence 200212, A
80	35	66.0	77	4	US-10-424-599-200212	Sequence 166212, A
81	35	66.0	138	4	US-10-437-963-166212	Sequence 36897, A
82	35	66.0	149	5	US-10-450-763-36897	Sequence 6, Appl1
83	35	66.0	151	4	US-10-177-390-6	Sequence 20, Appl
84	35	66.0	151	5	US-10-484-063-20	Sequence 27, Appl
85	35	66.0	151	5	US-10-484-063-27	Sequence 2, Appl1
86	35	66.0	158	5	US-10-858-384-2	Sequence 16, Appl
87	35	66.0	158	5	US-10-367-005-16	Sequence 13, Appl
88	35	66.0	158	6	US-11-021-949-13	Sequence 30, Appl
89	35	66.0	158	6	US-11-021-949-30	Sequence 199213, A
90	35	66.0	164	4	US-10-433-963-199213	Sequence 40552, A
91	35	66.0	164	4	US-10-767-701-40552	Sequence 52440, A
92	35	66.0	171	4	US-10-472-724-2	Sequence 77745, A
93	35	66.0	175	4	US-10-282-122A-52440	Sequence 52440, A
94	35	66.0	238	4	US-10-282-122A-77745	Sequence 192033, A
95	35	66.0	243	6	US-11-072-288-1	Sequence 1, Appl1
96	35	66.0	247	4	US-10-425-115-192033	Sequence 4, Appl1
97	35	66.0	266	3	US-09-367-309A-1	Sequence 4, Appl1
98	35	66.0	273	5	US-10-000-903-4	Sequence 4, Appl1
99	35	66.0	273	5	US-10-899-771-4	Sequence 10, Appl
100	35	66.0	292	4	US-10-000-903-10	















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977 30 56.6 147 4 US-10-425-114-48345 Sequence 48345, A
978 30 56.6 147 4 US-10-425-115-31806 Sequence 31806, A
979 30 56.6 148 4 US-10-437-963-185020 Sequence 185020, A
980 30 56.6 151 3 US-09-815-242-12507 Sequence 12507, A
981 30 56.6 151 5 US-10-889-934-8 Sequence 8, Appl1
982 30 56.6 151 5 US-10-913-228-8 Sequence 8, Appl1
983 30 56.6 152 4 US-10-437-963-160949 Sequence 160949, A
984 30 56.6 153 4 US-10-437-963-147023 Sequence 147023, A
985 30 56.6 153 4 US-10-437-963-189578 Sequence 189578, A
986 30 56.6 153 4 US-10-425-115-221965 Sequence 221965, A
987 30 56.6 153 4 US-10-425-115-318066 Sequence 318066, A
988 30 56.6 154 3 US-09-925-298-768 Sequence 768, App
989 30 56.6 154 4 US-10-102-806-768 Sequence 768, App
990 30 56.6 157 4 US-10-767-701-35900 Sequence 35900, A
991 30 56.6 159 4 US-10-425-114-62324 Sequence 62324, A
992 30 56.6 160 4 US-10-425-114-72763 Sequence 72763, A
993 30 56.6 161 4 US-10-425-114-36661 Sequence 36661, A
994 30 56.6 162 4 US-10-424-599-236450 Sequence 236450, A
995 30 56.6 164 3 US-09-764-864-1259 Sequence 1259, Ap
996 30 56.6 164 4 US-10-106-688-5545 Sequence 5545, Ap
997 30 56.6 165 4 US-10-767-701-61562 Sequence 61562, A
998 30 56.6 166 4 US-10-425-115-184862 Sequence 184862, A
999 30 56.6 166 5 US-10-739-930-5932 Sequence 5932, Ap
1000 30 56.6 167 5 US-10-450-763-40125 Sequence 40125, A
```

## ALIGNMENTS

```
RESULT 1
US-10-751-845-152
; Sequence 152, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 152
; LENGTH: 42
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-152

Query Match 100.0%; Score 53; DB 5; Length 42;
Best Local Similarity 100.0%; Pred. No. 0.44; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

OY 1 EITCVYCKT 9
Db 21 EITCVYCKT 29

RESULT 2
US-10-751-845-159
; Sequence 159, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
```

```
FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 159
; LENGTH: 119
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-159

Query Match 100.0%; Score 53; DB 5; Length 119;
Best Local Similarity 100.0%; Pred. No. 1.1; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

OY 1 EITCVYCKT 9
Db 21 EITCVYCKT 29
```

```
RESULT 3
US-10-800-023-27
; Sequence 27, Application US/10800023
; Publication No. US2004025868A1
; GENERAL INFORMATION:
; APPLICANT: Steinman, Ralph
; APPLICANT: Nussenzweig, Michel
; APPLICANT: Hawiger, Daniel
; APPLICANT: Bonifaz, Laura
; TITLE OF INVENTION: Enhanced Antigen Delivery and Modulation
; FILE REFERENCE: 600-1-081CONCIP1
; CURRENT APPLICATION NUMBER: US/10/800,023
; CURRENT FILING DATE: 2004-03-14
; PRIOR APPLICATION NUMBER: 09/925,284
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 09/586,704
; PRIOR FILING DATE: 2000-06-05
; PRIOR APPLICATION NUMBER: PCT/US96/01383
; PRIOR FILING DATE: 1996-01-31
; PRIOR APPLICATION NUMBER: 08/381,528
; PRIOR FILING DATE: 1995-01-31
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus E6 protein
US-10-800-023-27

Query Match 100.0%; Score 53; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 1.4; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

OY 1 EITCVYCKT 9
Db 29 EITCVYCKT 37

RESULT 4
US-11-021-949-28
; Sequence 28, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
```



```
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 28
LENGTH: 158
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-28
```

```
Query Match          100.0%; Score 53; DB 6; Length 158;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 EITCVYCKT 9
        |||||
        29 EITCVYCKT 37
```

```
RESULT 5
US-10-472-724-6
; Sequence 6, Application US/10472724
; Publication No. US20040171806A1
```

```
GENERAL INFORMATION:
APPLICANT: Cid-Arregui, Angel
APPLICANT: Zur Hausen, Harald
TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
FILE REFERENCE: 4121-154
CURRENT APPLICATION NUMBER: US/10/472,724
CURRENT FILING DATE: 2003-09-17
PRIOR APPLICATION NUMBER: PCT/EP02/03271
PRIOR FILING DATE: 2002-03-22
PRIOR APPLICATION NUMBER: EP 01107271.7
PRIOR FILING DATE: 2001-03-23
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PatentIn version 3.2
SEQ ID NO 6
LENGTH: 172
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Construct
US-10-472-724-6
```

```
Query Match          100.0%; Score 53; DB 4; Length 172;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 EITCVYCKT 9
        |||||
        35 EITCVYCKT 43
```

```
RESULT 6
US-10-751-845-157
; Sequence 157, Application US/10751845
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```
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Urban, Robert G.
APPLICANT: Chiciz, Roman M.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
FILE REFERENCE: 08191-013001
CURRENT APPLICATION NUMBER: US/10/751,845
```

```
CURRENT FILING DATE: 2004-01-05
PRIOR APPLICATION NUMBER: US/09/664,225
PRIOR FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: US 60/169,846
PRIOR FILING DATE: 1999-12-09
PRIOR APPLICATION NUMBER: US 60/154,665
PRIOR FILING DATE: 1999-09-16
NUMBER OF SEQ ID NOS: 163
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 157
LENGTH: 236
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-157
```

```
Query Match          100.0%; Score 53; DB 5; Length 236;
Best Local Similarity 100.0%; Pred. No. 2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 EITCVYCKT 9
        |||||
        138 EITCVYCKT 146
```

```
RESULT 7
US-10-751-845-158
; Sequence 158, Application US/10751845
```

```
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Urban, Robert G.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
FILE REFERENCE: 08191-013001
CURRENT APPLICATION NUMBER: US/10/751,845
CURRENT FILING DATE: 2004-01-05
PRIOR APPLICATION NUMBER: US/09/664,225
PRIOR FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: US 60/169,846
PRIOR FILING DATE: 1999-12-09
PRIOR APPLICATION NUMBER: US 60/154,665
PRIOR FILING DATE: 1999-09-16
NUMBER OF SEQ ID NOS: 163
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 158
LENGTH: 237
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-158
```

```
Query Match          100.0%; Score 53; DB 5; Length 237;
Best Local Similarity 100.0%; Pred. No. 2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
Qy      1 EITCVYCKT 9
        |||||
        139 EITCVYCKT 147
```

```
RESULT 8
US-10-751-845-160
; Sequence 160, Application US/10751845
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```
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Urban, Robert G.
APPLICANT: Chiciz, Roman M.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
FILE REFERENCE: 08191-013001
```

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; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 160
; LENGTH: 261
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-160
```

```

Query Match          100.0%; Score 53; DB 5; Length 261;
Best Local Similarity 100.0%; Pred. No. 2.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1 EITCVYCKT 9
        |||||
Db       163 EITCVYCKT 171
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```

RESULT 9
US-10-000-903-21
; Sequence 21, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 21
; LENGTH: 278
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-21
```

```

Query Match          100.0%; Score 53; DB 4; Length 278;
Best Local Similarity 100.0%; Pred. No. 2.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1 EITCVYCKT 9
        |||||
Db       140 EITCVYCKT 148
```

```

RESULT 10
US-10-899-771-21
; Sequence 21, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
```

```

; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 21
; LENGTH: 278
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
; OTHER INFORMATION: influenzae B and B6 from Human papilloma virus type
; OTHER INFORMATION: 18)
US-10-899-771-21
```

```

Query Match          100.0%; Score 53; DB 5; Length 278;
Best Local Similarity 100.0%; Pred. No. 2.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 EITCVYCKT 9
        |||||
Db       140 EITCVYCKT 148
```

```

RESULT 11
US-10-000-903-23
; Sequence 23, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-23
```

```

Query Match          100.0%; Score 53; DB 4; Length 383;
Best Local Similarity 100.0%; Pred. No. 3.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 EITCVYCKT 9
        |||||
Db       140 EITCVYCKT 148
```

```

RESULT 12
US-10-899-771-23
; Sequence 23, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
```

CURRENT APPLICATION NUMBER: US/10/899,771  
CURRENT FILING DATE: 2004-07-27  
PRIOR APPLICATION NUMBER: US/09/581,976  
PRIOR FILING DATE: 2000-06-20  
PRIOR APPLICATION NUMBER: PCT/EP98/08563  
PRIOR FILING DATE: 1998-12-18  
PRIOR APPLICATION NUMBER: GB 9727262.9  
PRIOR FILING DATE: 1997-12-24  
NUMBER OF SEQ ID NOS: 28  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 23  
LENGTH: 383  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Chimeric protein (protein D from Haemophilus  
OTHER INFORMATION: Influenzae B and B67 fusion from Human papilloma  
OTHER INFORMATION: Virus type 18)  
US-10-899-771-23

Query Match 100.0%; Score 53; DB 5; Length 383;  
Best Local Similarity 100.0%; Pred. No. 3.1;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EITCYCKT 9  
Db 140 EITCYCKT 148

RESULT 13  
US-10-408-765A-2049  
Sequence 2049, Application US/10408765A  
Publication No. US20040101874A1  
GENERAL INFORMATION:  
APPLICANT: Ghosh, Soumitra S.  
APPLICANT: Fahy, Eoin D.  
APPLICANT: Zhang, Bing  
APPLICANT: Gibson, Bradford W.  
APPLICANT: Taylor, Steven W.  
APPLICANT: Glenn, Gary M.  
APPLICANT: Warnock, Dale E.  
TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION  
TITLE OF INVENTION: IDENTIFIED IN THE MITOCHONDRIAL PROTEOME  
FILE REFERENCE: 660088.465  
CURRENT APPLICATION NUMBER: US/10/408,765A  
CURRENT FILING DATE: 2003-04-04  
NUMBER OF SEQ ID NOS: 3077  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 2049  
LENGTH: 625  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: VARIANT  
LOCATION: 365, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376,  
LOCATION: 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388,  
LOCATION: 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400,  
LOCATION: 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411  
OTHER INFORMATION: Xaa = Any Amino Acid  
FEATURE:  
NAME/KEY: VARIANT  
LOCATION: 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423,  
LOCATION: 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435,  
LOCATION: 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447,  
LOCATION: 448, 449  
OTHER INFORMATION: Xaa = Any Amino Acid  
US-10-408-765A-2049

Query Match 84.9%; Score 45; DB 4; Length 625;  
Best Local Similarity 77.8%; Pred. No. 77;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 1 EITCYCKT 9

Db 464 EITCYCKT 472

RESULT 14  
US-10-408-765A-324  
Sequence 324, Application US/10408765A  
Publication No. US20040101874A1  
GENERAL INFORMATION:  
APPLICANT: Ghosh, Soumitra S.  
APPLICANT: Fahy, Eoin D.  
APPLICANT: Zhang, Bing  
APPLICANT: Gibson, Bradford W.  
APPLICANT: Taylor, Steven W.  
APPLICANT: Glenn, Gary M.  
APPLICANT: Warnock, Dale E.  
TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION  
TITLE OF INVENTION: IDENTIFIED IN THE MITOCHONDRIAL PROTEOME  
FILE REFERENCE: 660088.465  
CURRENT APPLICATION NUMBER: US/10/408,765A  
CURRENT FILING DATE: 2003-04-04  
NUMBER OF SEQ ID NOS: 3077  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 324  
LENGTH: 734  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-408-765A-324

Query Match 84.9%; Score 45; DB 4; Length 734;  
Best Local Similarity 77.8%; Pred. No. 89;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 EITCYCKT 9  
Db 581 EITCYCKT 589

RESULT 15  
US-10-723-860-297  
Sequence 297, Application US/10723860  
Publication No. US20040253606A1  
GENERAL INFORMATION:  
APPLICANT: Aziz, Natsasha  
APPLICANT: Gineburg, Wendy M.  
APPLICANT: Zlotnick, Albert  
TITLE OF INVENTION: Methods of Diagnosis of Soft Tissue Sarcoma, Compositions &  
TITLE OF INVENTION: Methods for Screening for Soft Tissue Sarcoma Modulators  
FILE REFERENCE: 05882.0193.NPUS01  
CURRENT APPLICATION NUMBER: US/10/723,860  
CURRENT FILING DATE: 2003-11-26  
PRIOR APPLICATION NUMBER: 60/429,739  
PRIOR FILING DATE: 2002-11-26  
NUMBER OF SEQ ID NOS: 8393  
SOFTWARE: Patemlin version 3.2  
SEQ ID NO 297  
LENGTH: 734  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-723-860-297

Query Match 84.9%; Score 45; DB 5; Length 734;  
Best Local Similarity 77.8%; Pred. No. 89;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 EITCYCKT 9  
Db 581 EITCYCKT 589

RESULT 16  
US-10-408-765A-2050  
Sequence 2050, Application US/10408765A

```
; Publication No. US20040101874A1
; GENERAL INFORMATION:
; APPLICANT: Ghosh, Soumitra S.
; APPLICANT: Fany, Eoin D.
; APPLICANT: Zhang, Bing
; APPLICANT: Gibson, Bradford W.
; APPLICANT: Taylor, Steven W.
; APPLICANT: Glenn, Gary M.
; APPLICANT: Martock, Dale E.
; TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION
; TITLE OF INVENTION: IDENTIFIED IN THE MITOCHONDRIAL PROTEOME
; FILE REFERENCE: 660088.465
; CURRENT APPLICATION NUMBER: US/10/408,765A
; CURRENT FILING DATE: 2003-04-04
; NUMBER OF SEQ ID NOS: 3077
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2050
; LENGTH: 735
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486,
; LOCATION: 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498,
; LOCATION: 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510,
; LOCATION: 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521
; OTHER INFORMATION: xaa = Any Amino Acid
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533,
; LOCATION: 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545,
; LOCATION: 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557,
; LOCATION: 558, 559
; OTHER INFORMATION: xaa = Any Amino Acid
; US-10-408-765A-2050
```

```
Query Match      84.9%; Score 45; DB 4; Length 735;
Best Local Similarity 77.8%; Pred. No. 89;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 EITCVYCKT 9
Db      574 EFTCAVCKT 582
```

```
RESULT 17
; US-11-021-949-361
; Sequence 361, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GAMMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 361
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
; US-11-021-949-361
```

```
Query Match      79.2%; Score 42; DB 6; Length 158;
Best Local Similarity 87.5%; Pred. No. 66;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      2 ITCVYCKT 9
Db      30 IDCYVCKT 37
```

```
RESULT 18
; US-09-949-029-78
; Sequence 78, Application US/09949029
; Publication No. US20030134278A1
; GENERAL INFORMATION:
; APPLICANT: Karpen, G.H.
; APPLICANT: Dobie, K.W.
; APPLICANT: Kennedy, C.D.
; APPLICANT: Velasco, V.M.
; APPLICANT: McGrath, T.L.
; APPLICANT: Weko, J.
; APPLICANT: Patterson, R.W.
; TITLE OF INVENTION: Identification of chromosome inheritance modifiers in Drosophila
; TITLE OF INVENTION: melanogaster
; FILE REFERENCE: 1211.015US1
; CURRENT APPLICATION NUMBER: US/09/949,029
; CURRENT FILING DATE: 2001-09-07
; PRIOR APPLICATION NUMBER: US 60/231,178
; PRIOR FILING DATE: 2000-09-07
; NUMBER OF SEQ ID NOS: 149
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 78
; LENGTH: 314
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; US-09-949-029-78
```

```
Query Match      77.4%; Score 41; DB 3; Length 314;
Best Local Similarity 66.7%; Pred. No. 176+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 EITCVYCKT 9
Db      115 DITCPYCKT 123
```

```
RESULT 19
; US-11-097-143-31539
; Sequence 31539, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; FILE REFERENCE: CL000728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
```

; SEQ ID NO 31539  
; LENGTH: 314  
; TYPE: PRT  
; ORGANISM: DROSOPHILA  
US-11-097-143-31539

Query Match 77.4%; Score 41; DB 6; Length 314;  
Best Local Similarity 66.7%; Pred. No. 1.7e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCVCYCKT 9  
Db 115 DTCVCYCKT 123

RESULT 20  
US-10-450-763-37731  
; Sequence 37731, Application US/10450763  
; Publication No. US20050196754A1  
; GENERAL INFORMATION:  
; APPLICANT: Hyseq, Inc  
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES  
; FILE REFERENCE: 790CIP3/US  
; CURRENT APPLICATION NUMBER: US/10/450,763  
; PRIOR FILING DATE: 2003-06-11  
; PRIOR APPLICATION NUMBER: PCT/US01/08631  
; PRIOR FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/540,217  
; PRIOR FILING DATE: 2000-03-31  
; PRIOR APPLICATION NUMBER: 09/649,167  
; PRIOR FILING DATE: 2000-08-23  
; NUMBER OF SEQ ID NOS: 60736  
; SOFTWARE: Custom  
; SEQ ID NO 37731  
; LENGTH: 677  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: DOMAIN  
; LOCATION: (231)..(639)  
; OTHER INFORMATION: Zinc finger, C2H2 type domain identified by Pfam, accession  
US-10-450-763-37731

Query Match 75.5%; Score 40; DB 5; Length 677;  
Best Local Similarity 85.7%; Pred. No. 4.7e+02;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 TCVCYCKT 9  
Db 291 SCVCYCKT 297

RESULT 21  
US-10-108-260A-3060  
; Sequence 3060, Application US/10108260A  
; Publication No. US20040005560A1  
; GENERAL INFORMATION:  
; APPLICANT: HELIX RESEARCH INSTITUTE  
; TITLE OF INVENTION: NO. US20040005560A1e1 full length cDNA  
; FILE REFERENCE: H1-A0106  
; CURRENT APPLICATION NUMBER: US/10/108,260A  
; PRIOR FILING DATE: 2002-03-27  
; NUMBER OF SEQ ID NOS: 5458  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3060  
; LENGTH: 727  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-108-260A-3060

Query Match 75.5%; Score 40; DB 4; Length 727;  
Best Local Similarity 85.7%; Pred. No. 5e+02;

Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 TCVCYCKT 9  
Db 273 SCVCYCKT 279

RESULT 22  
US-10-471-450-16  
; Sequence 16, Application US/10471450  
; Publication No. US20040152877A1  
; GENERAL INFORMATION:  
; APPLICANT: JACKSON, Jennifer L.; BAUGHN, Mariah R.;  
; APPLICANT: SWARNAKAR, Anita; YUE, Henry;  
; APPLICANT: ELIOTT, Vicki S.; BURFORD, Neil;  
; APPLICANT: DING, Li; TANG, Y. Tom;  
; APPLICANT: LEE, Soo Yeun; AZIMZAI, Valda;  
; APPLICANT: CHAMLA, Narinder K.; GIETZEN, Kimberly J.;  
; APPLICANT: GRIFFIN, Jennifer A.; LAL, Preeti G.;  
; APPLICANT: YANG, Junming; BOROMSKY, Mark L.;  
; APPLICANT: RICHARDSON, Thomas W.; YUE, Huibin;  
; APPLICANT: BECHA, Shanya; FORSTHE, Ian J.;  
; APPLICANT: JONES, Karen Anne; WARREN, Bridget;  
; APPLICANT: THANGAVELU, Kavitha; HONCHERL, Cynthia;  
; APPLICANT: JOLLEY, Helen E.; HAPALIA, April J.A.; Huilun Z. Ring  
; TITLE OF INVENTION: NUCLEIC ACID ASSOCIATED PROTEINS  
; FILE REFERENCE: PF-0917 USN  
; CURRENT APPLICATION NUMBER: US/10/471,450  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: PCT/US02/07869  
; PRIOR FILING DATE: 2002-03-14  
; PRIOR APPLICATION NUMBER: US 60/276,857  
; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: US 60/285,489  
; PRIOR FILING DATE: 2001-04-19  
; PRIOR APPLICATION NUMBER: US 60/285,556  
; PRIOR FILING DATE: 2001-04-19  
; PRIOR APPLICATION NUMBER: US 60/288,700  
; PRIOR FILING DATE: 2001-05-04  
; PRIOR APPLICATION NUMBER: US 60/288,646  
; PRIOR FILING DATE: 2001-05-04  
; PRIOR APPLICATION NUMBER: US 60/290,510  
; PRIOR FILING DATE: 2001-05-10  
; PRIOR APPLICATION NUMBER: US 60/290,369  
; PRIOR FILING DATE: 2001-05-11  
; PRIOR APPLICATION NUMBER: US 60/332,426  
; PRIOR FILING DATE: 2001-11-16  
; NUMBER OF SEQ ID NOS: 52  
; SOFTWARE: PERL Program  
; SEQ ID NO 16  
; LENGTH: 3572  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Inocyte ID No: 3206847CD1  
US-10-471-450-16

Query Match 75.5%; Score 40; DB 4; Length 3572;  
Best Local Similarity 85.7%; Pred. No. 2e+03;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 TCVCYCKT 9  
Db 673 SCVCYCKT 679

RESULT 23  
US-10-751-845-139  
; Sequence 139, Application US/10751845  
; Publication No. US20050100928A1  
; GENERAL INFORMATION:  
; APPLICANT: Hedley, Mary Lynne

```

; APPLICANT: Urban, Robert G.
; APPLICANT: Chiciz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; PRIOR FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 139
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-139
```

```

Query Match      73.6%; Score 39; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      4 CVCYCKT 9
Db      1 CVCYCKT 6
```

```

RESULT 24
US-11-021-949-24
; Sequence 24, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 151
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-24
```

```

Query Match      73.6%; Score 39; DB 6; Length 151;
Best Local Similarity 62.5%; Pred. No. 1.8e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 EITVCYCK 8
Db      27 QVWCVCYCK 34
```

```

RESULT 25
US-09-815-242-13432
; Sequence 13432, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Karl L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
```

```

; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; FILE REFERENCE: ELITRA.011A
; CURRENT APPLICATION NUMBER: US/09/815,242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13432
; LENGTH: 290
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-09-815-242-13432
```

```

Query Match      73.6%; Score 39; DB 3; Length 290;
Best Local Similarity 66.7%; Pred. No. 3.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 EITVCYCKT 9
Db      265 EITCQFCQT 273
```

```

RESULT 26
US-09-815-242-13659
; Sequence 13659, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Karl L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; FILE REFERENCE: ELITRA.011A
; CURRENT APPLICATION NUMBER: US/09/815,242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq for Windows Version 4.0
```

```
; SEQ ID NO 13659
; LENGTH: 290
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-09-815-242-13659

Query Match      73.6%; Score 39; DB 3; Length 290;
Best Local Similarity 66.7%; Pred. No. 3.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      1 EITCYCKT 9
      |||||:|:|
Db      265 EITCFCQT 273

RESULT 27
US-09-769-787-153
; Sequence 153, Application US/09769787
; Publication No. US20030091577A1
; GENERAL INFORMATION:
; APPLICANT: Microbial Technics Limited
; APPLICANT: Gilbert, Christophe FG
; APPLICANT: Hanebro, Philip M
; TITLE OF INVENTION: Proteins
; FILE REFERENCE: PMC/P21123WO
; CURRENT APPLICATION NUMBER: US/09/769,787
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: GB 9816337.1
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: US 60/125164
; PRIOR FILING DATE: 1999-03-19
; NUMBER OF SEQ ID NOS: 388
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 153
; LENGTH: 290
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-09-769-787-153

Query Match      73.6%; Score 39; DB 3; Length 290;
Best Local Similarity 66.7%; Pred. No. 3.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      1 EITCYCKT 9
      |||||:|:|
Db      265 EITCFCQT 273

RESULT 28
US-10-282-122A-74226
; Sequence 74226, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Olsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: EITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23

; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 74226
; LENGTH: 290
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-10-282-122A-74226

Query Match      73.6%; Score 39; DB 4; Length 290;
Best Local Similarity 66.7%; Pred. No. 3.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      1 EITCYCKT 9
      |||||:|:|
Db      265 EITCFCQT 273

RESULT 29
US-10-472-928-4594
; Sequence 4594, Application US/10472928
; Publication No. US20050020813A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: THE INSTITUTE FOR GENOMIC RESEARCH
; TITLE OF INVENTION: STREPTOCOCCUS PNEUMONIAE PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE: P026926WO
; CURRENT APPLICATION NUMBER: US/10/472,928
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: GB-0107658.7
; PRIOR FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 4979
; SOFTWARE: SeqMin99, version 1.03
; SEQ ID NO 4594
; LENGTH: 290
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
; FEATURE:
; OTHER INFORMATION: chaperonin, 33 kDa (hsp10)
; OTHER INFORMATION: Cellular location: cytoplasm
; OTHER INFORMATION: Similar to strain R6 sequence 15904034 (e-163)
US-10-472-928-4594

Query Match      73.6%; Score 39; DB 5; Length 290;
Best Local Similarity 66.7%; Pred. No. 3.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      1 EITCYCKT 9
      |||||:|:|
Db      265 EITCFCQT 273

RESULT 30
US-10-617-320-2649
; Sequence 2649, Application US/10617320
; Publication No. US20050136404A1
; GENERAL INFORMATION:
```

APPLICANT: Lynn A Doucette-Stamm and David Bush  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID  
SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE FOR DIAGN  
THERAPEUTICS  
NUMBER OF SEQUENCES: 5206  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: GENOME THERAPEUTICS CORPORATION  
STREET: 100 Beaver Street  
CITY: Waltham  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02354  
COMPUTER READABLE FORM:  
MEDIUM TYPE: CD-ROM ISO9660  
COMPUTER: <Unknown>  
OPERATING SYSTEM: <Unknown>  
SOFTWARE: <Unknown>  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/617,320  
FILING DATE: 10-Jul-2003  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/107,433  
FILING DATE: 30-Jun-1998  
APPLICATION NUMBER: 60/ 085131  
FILING DATE: May 12, 1998  
APPLICATION NUMBER: 60/051553  
FILING DATE: July 2, 1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Arinello, Pamela Deneke  
REGISTRATION NUMBER: 40,489  
REFERENCE/DOCKET NUMBER: GTC-011  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (781)893-5007  
TELEFAX: (781)893-8277  
INFORMATION FOR SEQ ID NO: 2649:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 305 amino acids  
TYPE: amino acid  
MOLECULE TYPE: linear  
HYPOTHETICAL: YES  
ORIGINAL SOURCE:  
ORGANISM: Streptococcus pneumoniae  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (B) LOCATION 1...305  
SEQUENCE DESCRIPTION: SEQ ID NO: 2649:  
US-10-617-320-2649  
Query Match 73.6%; Score 39; DB 5; Length 305;  
Best Local Similarity 66.7%; Pred. No. 3.3e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;  
QY 1 ITCVCKT 9  
Db 280 EITCQFCQT 288  
RESULT 31  
US-10-425-115-276810  
Sequence 276810, Application US/10425115  
Publication No. US20040214272A1  
GENERAL INFORMATION:  
APPLICANT: La Rosa, Thomas J.  
APPLICANT: Kovalic, David K.  
APPLICANT: Zhou, Yihua  
APPLICANT: Cao, Yongwei  
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
FILE REFERENCE: 38-21(53222)B  
CURRENT APPLICATION NUMBER: US/10/425,115  
CURRENT FILING DATE: 2003-04-28  
NUMBER OF SEQ ID NOS: 369326

SEQ ID NO 276810  
LENGTH: 95  
TYPE: PRT  
ORGANISM: Zea mays  
FEATURE:  
OTHER INFORMATION: Clone ID: MRT4577\_184033C.1.pcp  
US-10-425-115-276810  
Query Match 71.7%; Score 38; DB 4; Length 95;  
Best Local Similarity 62.5%; Pred. No. 1.7e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;  
QY 2 ITCVCKT 9  
Db 55 VTCFYCKS 62  
RESULT 32  
US-10-425-115-276807  
Sequence 276807, Application US/10425115  
Publication No. US20040214272A1  
GENERAL INFORMATION:  
APPLICANT: La Rosa, Thomas J.  
APPLICANT: Kovalic, David K.  
APPLICANT: Zhou, Yihua  
APPLICANT: Cao, Yongwei  
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
FILE REFERENCE: 38-21(53222)B  
CURRENT APPLICATION NUMBER: US/10/425,115  
CURRENT FILING DATE: 2003-04-28  
NUMBER OF SEQ ID NOS: 369326  
SEQ ID NO 276807  
LENGTH: 123  
TYPE: PRT  
ORGANISM: Zea mays  
FEATURE:  
NAME/KEY: unsure  
LOCATION: (1) (123)  
OTHER INFORMATION: unsure at all Xaa locations  
FEATURE:  
OTHER INFORMATION: Clone ID: MRT4577\_184030C.1.pcp  
US-10-425-115-276807  
Query Match 71.7%; Score 38; DB 4; Length 123;  
Best Local Similarity 62.5%; Pred. No. 2.1e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;  
QY 2 ITCVCKT 9  
Db 98 VTCFYCKS 105  
RESULT 33  
US-11-021-949-27  
Sequence 27, Application US/11021949  
Publication No. US20050142541A1  
GENERAL INFORMATION:  
APPLICANT: LU, PETER  
APPLICANT: GARMAN, JONATHAN DAVID  
APPLICANT: BELMARES, MICHAEL P.  
APPLICANT: DIAZ-SANTIAGO, CHAMORO SOMOZA  
APPLICANT: SCHWEIZER, JOHANNES  
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV  
FILE REFERENCE: VITA-012  
CURRENT APPLICATION NUMBER: US/11/021,949  
CURRENT FILING DATE: 2004-12-23  
PRIOR APPLICATION NUMBER: 60/532,373  
PRIOR FILING DATE: 2003-12-23  
NUMBER OF SEQ ID NOS: 361  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 27



LENGTH: 150  
TYPE: PRT  
ORGANISM: human papilloma virus (HPV)  
US-11-021-949-27

Query Match 71.7%; Score 38; DB 6; Length 150;  
Best Local Similarity 62.5%; Pred. No. 2.5e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 BITCVYCK 8  
DB 27 QVQCVYCK 34

RESULT 34  
US-11-021-949-25  
Sequence 25, Application US/11021949  
Publication No. US20050142541A1  
GENERAL INFORMATION:  
APPLICANT: LU, PETER  
APPLICANT: GARMAN, JONATHAN DAVID  
APPLICANT: BELMARES, MICHAEL P.  
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA  
APPLICANT: SCHWEIZER, JOHANNES  
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV  
FILE REFERENCE: VITA-012  
CURRENT APPLICATION NUMBER: US/11/021,949  
CURRENT FILING DATE: 2004-12-23  
PRIOR APPLICATION NUMBER: 60/532,373  
PRIOR FILING DATE: 2003-12-23  
NUMBER OF SEQ ID NOS: 361  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 25  
LENGTH: 151  
TYPE: PRT  
ORGANISM: human papilloma virus (HPV)  
US-11-021-949-25

Query Match 71.7%; Score 38; DB 6; Length 151;  
Best Local Similarity 62.5%; Pred. No. 2.6e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 BITCVYCK 8  
DB 27 QVLCVYCK 34

RESULT 35  
US-11-021-949-26  
Sequence 26, Application US/11021949  
Publication No. US20050142541A1  
GENERAL INFORMATION:  
APPLICANT: LU, PETER  
APPLICANT: GARMAN, JONATHAN DAVID  
APPLICANT: BELMARES, MICHAEL P.  
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA  
APPLICANT: SCHWEIZER, JOHANNES  
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV  
FILE REFERENCE: VITA-012  
CURRENT APPLICATION NUMBER: US/11/021,949  
CURRENT FILING DATE: 2004-12-23  
PRIOR APPLICATION NUMBER: 60/532,373  
PRIOR FILING DATE: 2003-12-23  
NUMBER OF SEQ ID NOS: 361  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 26  
LENGTH: 151  
TYPE: PRT  
ORGANISM: human papilloma virus (HPV)  
US-11-021-949-26

Query Match 71.7%; Score 38; DB 6; Length 151;  
Best Local Similarity 62.5%; Pred. No. 2.6e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 BITCVYCK 8  
DB 27 QVQCVYCK 34

RESULT 36  
US-11-021-949-29  
Sequence 29, Application US/11021949  
Publication No. US20050142541A1  
GENERAL INFORMATION:  
APPLICANT: LU, PETER  
APPLICANT: GARMAN, JONATHAN DAVID  
APPLICANT: BELMARES, MICHAEL P.  
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA  
APPLICANT: SCHWEIZER, JOHANNES  
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV  
FILE REFERENCE: VITA-012  
CURRENT APPLICATION NUMBER: US/11/021,949  
CURRENT FILING DATE: 2004-12-23  
PRIOR APPLICATION NUMBER: 60/532,373  
PRIOR FILING DATE: 2003-12-23  
NUMBER OF SEQ ID NOS: 361  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 29  
LENGTH: 158  
TYPE: PRT  
ORGANISM: human papilloma virus (HPV)  
US-11-021-949-29

Query Match 71.7%; Score 38; DB 6; Length 158;  
Best Local Similarity 85.7%; Pred. No. 2.7e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 ITCVYCK 8  
DB 30 IACVYCK 36

RESULT 37  
US-11-097-143-23502  
Sequence 23502, Application US/11097143  
Publication No. US20050208558A1  
GENERAL INFORMATION:  
APPLICANT: Venter, J. Craig  
APPLICANT: et al.  
TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID  
ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE  
FILE REFERENCE: CLO00728  
CURRENT APPLICATION NUMBER: US/11/097,143  
CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: 60/157,832  
PRIOR FILING DATE: 1999-10-05  
PRIOR APPLICATION NUMBER: 60/160,191  
PRIOR FILING DATE: 1999-10-19  
PRIOR APPLICATION NUMBER: 60/161,932  
PRIOR FILING DATE: 1999-10-28  
PRIOR APPLICATION NUMBER: 60/164,769  
PRIOR FILING DATE: 1999-11-12  
PRIOR APPLICATION NUMBER: 60/173,383  
PRIOR FILING DATE: 1999-12-28  
PRIOR APPLICATION NUMBER: 60/175,693  
PRIOR FILING DATE: 2000-01-12  
PRIOR APPLICATION NUMBER: 60/184,831  
PRIOR FILING DATE: 2000-02-24  
PRIOR APPLICATION NUMBER: 60/191,637  
PRIOR FILING DATE: 2000-03-23  
NUMBER OF SEQ ID NOS: 43008

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 23502  
LENGTH: 1366  
TYPE: PRT  
ORGANISM: DROSOPHILA  
US-11-097-143-23502

Query Match 71.7%; Score 38; DB 6; Length 1366;  
Best Local Similarity 66.7%; Pred. No. 1.8e+03;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 EITCVYCKT 9  
|:|:|:|:|  
DB 1290 EVTCYSCKT 1298

RESULT 38

US-10-424-599-200471  
Sequence 200471, Application US/10424599  
Publication No. US20040031072A1  
GENERAL INFORMATION:  
APPLICANT: La Rosa Thomas J  
APPLICANT: Kovalic David K  
APPLICANT: Zhou Yihua  
APPLICANT: Cao Yongwei  
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With  
FILE REFERENCE: 38-21(53223)B  
CURRENT APPLICATION NUMBER: US/10/424,599  
CURRENT FILING DATE: 2003-04-28  
NUMBER OF SEQ ID NOS: 285684  
SEQ ID NO 200471  
LENGTH: 45  
TYPE: PRT  
ORGANISM: Glycine max  
FEATURE:  
NAME/KEY: unsure  
LOCATION: (1)..(45)  
OTHER INFORMATION: unsure at all Xaa locations  
FEATURE:  
OTHER INFORMATION: Clone ID: PAT\_MRT3847\_23050C.1.pep  
US-10-424-599-200471

Query Match 69.8%; Score 37; DB 4; Length 45;  
Best Local Similarity 75.0%; Pred. No. 1.3e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVYCKT 9  
|:|:|:|:|  
DB 12 ITSIVCKT 19

RESULT 39

US-10-424-599-193040  
Sequence 193040, Application US/10424599  
Publication No. US20040031072A1  
GENERAL INFORMATION:  
APPLICANT: La Rosa Thomas J  
APPLICANT: Kovalic David K  
APPLICANT: Zhou Yihua  
APPLICANT: Cao Yongwei  
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With  
FILE REFERENCE: 38-21(53223)B  
CURRENT APPLICATION NUMBER: US/10/424,599  
CURRENT FILING DATE: 2003-04-28  
NUMBER OF SEQ ID NOS: 285684  
SEQ ID NO 193040  
LENGTH: 52  
TYPE: PRT  
ORGANISM: Glycine max  
FEATURE:  
OTHER INFORMATION: Clone ID: PAT\_MRT3847\_16336C.1.pep

US-10-424-599-193040

Query Match 69.8%; Score 37; DB 4; Length 52;  
Best Local Similarity 66.7%; Pred. No. 1.4e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 EITCVYCKT 9  
|:|:|:|:|  
DB 24 EMTCHYCTT 32

RESULT 40

US-10-425-114-44730  
Sequence 44730, Application US/10425114  
Publication No. US2004003488A1  
GENERAL INFORMATION:  
APPLICANT: Liu, Jingdong  
APPLICANT: Zhou, Yihua  
APPLICANT: Kovalic, David K.  
APPLICANT: Screen, Steven E  
APPLICANT: Tabaska, Jack E  
APPLICANT: Cao, Yongwei  
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
FILE REFERENCE: 38-21(53113)B  
CURRENT APPLICATION NUMBER: US/10/425,114  
CURRENT FILING DATE: 2003-04-28  
NUMBER OF SEQ ID NOS: 73128  
SEQ ID NO 44730  
LENGTH: 55  
TYPE: PRT  
ORGANISM: Zea mays  
FEATURE:  
OTHER INFORMATION: Clone ID: LIB3076-011-F7\_FLI.pep  
US-10-425-114-44730

Query Match 69.8%; Score 37; DB 4; Length 55;  
Best Local Similarity 55.6%; Pred. No. 1.5e+02;  
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 EITCVYCKT 9  
|:|:|:|:|  
DB 46 EVACSYCT 54

RESULT 41

US-10-425-115-191172  
Sequence 191172, Application US/10425115  
Publication No. US20040214272A1  
GENERAL INFORMATION:  
APPLICANT: La Rosa, Thomas J.  
APPLICANT: Kovalic, David K.  
APPLICANT: Zhou, Yihua  
APPLICANT: Cao, Yongwei  
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
FILE REFERENCE: 38-21(53222)B  
CURRENT APPLICATION NUMBER: US/10/425,115  
CURRENT FILING DATE: 2003-04-28  
NUMBER OF SEQ ID NOS: 369326  
SEQ ID NO 191172  
LENGTH: 55  
TYPE: PRT  
ORGANISM: Zea mays  
FEATURE:  
OTHER INFORMATION: Clone ID: MRT4577\_105927C.1.pep  
US-10-425-115-191172

Query Match 69.8%; Score 37; DB 4; Length 55;  
Best Local Similarity 55.6%; Pred. No. 1.5e+02;  
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 EITCVYCKT 9

Db 46 EVASCYCET 54

RESULT 42  
US-10-437-963-139053  
; Sequence 139053, Application US/10437963  
; Publication No. US20040123343A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li, Ping  
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53221)B  
; CURRENT APPLICATION NUMBER: US/10/437,963  
; CURRENT FILING DATE: 2003-05-14  
; NUMBER OF SEQ ID NOS: 204966  
; SEQ ID NO 139053  
; LENGTH: 64  
; TYPE: PRT  
; ORGANISM: Oryza sativa  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)..(64)  
; OTHER INFORMATION: unsure at all Xaa locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_40383C.1.pep  
US-10-437-963-139053

Query Match 69.8%; Score 37; DB 4; Length 64;  
Best Local Similarity 66.7%; Pred. No. 1.7e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 EITCYCKT 9  
| | | | |  
Db 41 EOTCVFCST 49

RESULT 43  
US-10-424-599-249892  
; Sequence 249892, Application US/10424599  
; Publication No. US20040031072A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Kovalic, David K.  
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53223)B  
; CURRENT APPLICATION NUMBER: US/10/424,599  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 285684  
; SEQ ID NO 249892  
; LENGTH: 70  
; TYPE: PRT  
; ORGANISM: Glycine max  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT3847\_67681C.1.pep  
US-10-424-599-249892

Query Match 69.8%; Score 37; DB 4; Length 70;  
Best Local Similarity 57.1%; Pred. No. 1.9e+02;  
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 2 ITCVCK 8  
: | | | | |

Db 54 LTCICR 60

RESULT 44  
US-10-437-963-124482  
; Sequence 124482, Application US/10437963  
; Publication No. US20040123343A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li, Ping  
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53221)B  
; CURRENT APPLICATION NUMBER: US/10/437,963  
; CURRENT FILING DATE: 2003-05-14  
; NUMBER OF SEQ ID NOS: 204966  
; SEQ ID NO 124482  
; LENGTH: 137  
; TYPE: PRT  
; ORGANISM: Oryza sativa  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)..(137)  
; OTHER INFORMATION: unsure at all Xaa locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_27216C.1.pep  
US-10-437-963-124482

Query Match 69.8%; Score 37; DB 4; Length 137;  
Best Local Similarity 85.7%; Pred. No. 3.3e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 EITCYCKT 7  
| | | | |  
Db 123 ESTCYC 129

RESULT 45  
US-10-369-493-11069  
; Sequence 11069, Application US/10369493  
; Publication No. US20030233675A1  
; GENERAL INFORMATION:  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Hinkle, Gregory J.  
; APPLICANT: Slater, Steven C.  
; APPLICANT: Goldman, Barry S.  
; APPLICANT: Chen, Xianfeng  
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF  
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES  
; FILE REFERENCE: 38-10(52052)B  
; CURRENT APPLICATION NUMBER: US/10/369,493  
; CURRENT FILING DATE: 2003-02-28  
; PRIOR APPLICATION NUMBER: US 60/360,039  
; PRIOR FILING DATE: 2002-02-21  
; NUMBER OF SEQ ID NOS: 47374  
; SEQ ID NO 11069  
; LENGTH: 147  
; TYPE: PRT  
; ORGANISM: Petriopsis acidarmanus  
US-10-369-493-11069

Query Match 69.8%; Score 37; DB 4; Length 147;  
Best Local Similarity 85.7%; Pred. No. 3.5e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVCK 8  
| | | | |

Db 129 IKCVYCK 135

## RESULT 46

US-11-021-949-20  
; Sequence 20, Application US/11021949  
; Publication No. US20050142541A1  
; GENERAL INFORMATION:  
; APPLICANT: LU, PETER  
; APPLICANT: GARMAN, JONATHAN DAVID  
; APPLICANT: BELMARES, MICHAEL P.  
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA  
; APPLICANT: SCHWEIZER, JOHANNES  
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV  
; TITLE OF INVENTION: AND METHODS OF THEIR USE  
; FILE REFERENCE: VITA-012  
; CURRENT APPLICATION NUMBER: US/11/021,949  
; CURRENT FILING DATE: 2004-12-23  
; PRIOR APPLICATION NUMBER: 60/532,373  
; PRIOR FILING DATE: 2003-12-23  
; NUMBER OF SEQ ID NOS: 361  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 20  
; LENGTH: 153  
; TYPE: PRT  
; ORGANISM: human papilloma virus (HPV)  
US-11-021-949-20

Query Match 69.8%; Score 37; DB 6; Length 153;  
Best Local Similarity 62.5%; Pred. No. 3.7e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 EITCVYCK 8  
Db 30 QLOCVYCK 37

## RESULT 47

US-11-021-949-22  
; Sequence 22, Application US/11021949  
; Publication No. US20050142541A1  
; GENERAL INFORMATION:  
; APPLICANT: LU, PETER  
; APPLICANT: GARMAN, JONATHAN DAVID  
; APPLICANT: BELMARES, MICHAEL P.  
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA  
; APPLICANT: SCHWEIZER, JOHANNES  
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV  
; TITLE OF INVENTION: AND METHODS OF THEIR USE  
; FILE REFERENCE: VITA-012  
; CURRENT APPLICATION NUMBER: US/11/021,949  
; CURRENT FILING DATE: 2004-12-23  
; PRIOR APPLICATION NUMBER: 60/532,373  
; PRIOR FILING DATE: 2003-12-23  
; NUMBER OF SEQ ID NOS: 361  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 22  
; LENGTH: 155  
; TYPE: PRT  
; ORGANISM: human papilloma virus (HPV)  
US-11-021-949-22

Query Match 69.8%; Score 37; DB 6; Length 155;  
Best Local Similarity 71.4%; Pred. No. 3.7e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 ITCVYCK 8  
Db 31 LSCVYCK 37

RESULT 48  
US-11-021-949-23

; Sequence 23, Application US/11021949  
; Publication No. US20050142541A1  
; GENERAL INFORMATION:  
; APPLICANT: LU, PETER  
; APPLICANT: GARMAN, JONATHAN DAVID  
; APPLICANT: BELMARES, MICHAEL P.  
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA  
; APPLICANT: SCHWEIZER, JOHANNES  
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV  
; TITLE OF INVENTION: AND METHODS OF THEIR USE  
; FILE REFERENCE: VITA-012  
; CURRENT APPLICATION NUMBER: US/11/021,949  
; CURRENT FILING DATE: 2004-12-23  
; PRIOR APPLICATION NUMBER: 60/532,373  
; PRIOR FILING DATE: 2003-12-23  
; NUMBER OF SEQ ID NOS: 361  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 23  
; LENGTH: 155  
; TYPE: PRT  
; ORGANISM: human papilloma virus (HPV)  
US-11-021-949-23

Query Match 69.8%; Score 37; DB 6; Length 155;  
Best Local Similarity 71.4%; Pred. No. 3.7e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 ITCVYCK 8  
Db 31 LSCVYCK 37

RESULT 49  
US-09-895-913A-330  
; Sequence 330, Application US/09895913A  
; Patent No. US20020160456A1  
; GENERAL INFORMATION:  
; APPLICANT: Kleantous, Harold  
; APPLICANT: Al-Garawi, Amal  
; APPLICANT: Miller, Charles  
; APPLICANT: Tomb, Jean Francois  
; APPLICANT: Oomen, Raymond P.  
; TITLE OF INVENTION: Identifying No. US20020160456A1 Helicobacter Polypeptides in the  
; TITLE OF INVENTION: Genome  
; FILE REFERENCE: 06132/043002  
; CURRENT APPLICATION NUMBER: US/09/895,913A  
; CURRENT FILING DATE: 2001-06-29  
; PRIOR APPLICATION NUMBER: US 08/881,227  
; PRIOR FILING DATE: 1997-06-24  
; NUMBER OF SEQ ID NOS: 368  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 330  
; LENGTH: 183  
; TYPE: PRT  
; ORGANISM: Helicobacter pylori  
US-09-895-913A-330

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Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 EITCVYCK 8  
Db 106 DISCVYCK 113

RESULT 50  
US-09-815-242-11324  
; Sequence 11324, Application US/09815242  
; Patent No. US2002061569A1  
; GENERAL INFORMATION:  
; APPLICANT: Haeelbeck, Robert

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; APPLICANT: Ohlsen, Kari L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; TITLE OF INVENTION: Prokaryotes
; FILE REFERENCE: ELITRA.011A
; CURRENT APPLICATION NUMBER: US/09/815,242
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11324
; LENGTH: 328
; TYPE: PRT
; ORGANISM: Helicobacter pylori
US-09-815-242-11324
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Query Match 69.8%; Score 37; DB 3; Length 328;
Best Local Similarity 62.5%; Pred. No. 7.2e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
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Db 251 DISCVCK 258
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us-08-170-344-24.rapbn

GenCore version 5.1.7  
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OM protein - protein search, using sw model

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Title: US-08-170-344-24

Perfect score: 53

Sequence: 1 EITCVYCKT 9

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Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

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2	48	90.6	15	US-10-530-061-1659	Sequence 1659, Ap
3	45	84.9	10	US-10-530-061-517	Sequence 517, App
4	40	75.5	454	US-11-098-686-10919	Sequence 10919, A
5	39	73.6	151	US-10-530-253-21	Sequence 21, Appl
6	39	73.6	230	US-10-873-528-153	Sequence 153, App
7	38	71.7	9	US-10-530-061-621	Sequence 621, App
8	38	71.7	10	US-10-530-061-560	Sequence 560, App
9	38	71.7	158	US-10-530-253-20	Sequence 20, Appl
10	37	69.8	11	US-10-530-061-493	Sequence 493, Appl
11	37	69.8	15	US-10-530-061-1691	Sequence 1691, Ap
12	37	69.8	155	US-10-530-253-23	Sequence 23, Appl
13	36	67.9	15	US-10-530-061-1667	Sequence 1667, Ap
14	36	67.9	149	US-10-530-253-16	Sequence 16, Appl
15	36	67.9	149	US-10-530-253-18	Sequence 18, Appl
16	35	67.9	769	US-11-188-298-18431	Sequence 18431, A
17	35	66.0	9	US-10-530-061-620	Sequence 620, App
18	35	66.0	10	US-10-530-061-561	Sequence 561, App
19	35	66.0	15	US-10-530-061-1692	Sequence 1692, Ap
20	35	66.0	151	US-10-530-253-13	Sequence 13, Appl
21	35	66.0	158	US-10-530-253-19	Sequence 19, Appl

22	35	66.0	158	US-11-206-138-3	Sequence 3, Appl
23	35	66.0	248	US-10-530-253-1	Sequence 1, Appl
24	35	66.0	248	US-10-530-253-3	Sequence 3, Appl
25	35	66.0	248	US-10-530-253-5	Sequence 5, Appl
26	35	66.0	248	US-10-530-253-7	Sequence 7, Appl
27	35	66.0	248	US-10-530-253-9	Sequence 9, Appl
28	35	66.0	248	US-10-530-253-11	Sequence 11, Appl
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37	34	64.2	10	US-10-530-061-562	Sequence 5531, Ap
38	34	64.2	122	US-11-079-463-5531	Sequence 39, Appl
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66	33	62.3	343	US-11-087-099-7274	Sequence 2215, Ap
67	33	62.3	343	US-11-045-004-2215	Sequence 36, Appl
68	33	62.3	521	US-11-051-724-56	Sequence 44, Appl
69	33	62.3	530	US-11-183-136-44	Sequence 42, Appl
70	33	62.3	589	US-11-183-136-42	Sequence 3396, A
71	33	62.3	632	US-11-096-568A-3396	Sequence 20, Appl
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73	32	60.4	104	US-11-284-905-14	Sequence 13134, A
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82	32	60.4	250	US-11-087-099-9977	Sequence 9, Appl
83	32	60.4	265	US-11-087-099-9977	Sequence 9, Appl
84	32	60.4	292	US-10-967-527A-19	Sequence 19, Appl
85	32	60.4	293	US-10-742-634-7	Sequence 7, Appl
86	32	60.4	293	US-11-221-849-2	Sequence 2, Appl
87	32	60.4	293	US-11-242-294-2	Sequence 6, Appl
88	32	60.4	293	US-11-200-992-6	Sequence 2, Appl
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93	32	60.4	357	US-11-242-294-54	Sequence 56, Appl
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97	32	60.4	392	11	US-11-242-294-50	Sequence 50, Appl	170	30	56.6	14	11	US-11-220-372-215	Sequence 215, App
98	32	60.4	406	8	US-10-505-928-837	Sequence 837, App	171	30	56.6	14	11	US-11-220-372-213	Sequence 243, App
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100	32	60.4	476	9	US-10-784-004-1220	Sequence 1220, Ap	173	30	56.6	29	11	US-11-196-670-51	Sequence 51, Appl
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102	32	60.4	529	10	US-11-106-014-44	Sequence 44, Appl	175	30	56.6	68	11	US-11-096-568A-8329	Sequence 8329, Ap
103	32	60.4	529	11	US-11-073-457-44	Sequence 44, Appl	176	30	56.6	81	11	US-11-244-394-2	Sequence 2, Appl1
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105	32	60.4	618	9	US-10-821-234-1481	Sequence 1481, Ap	178	30	56.6	86	7	US-09-978-360A-579	Sequence 579, App
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109	31	58.5	35	11	US-11-004-399-2142	Sequence 2142, Ap	182	30	56.6	95	11	US-11-096-568A-31441	Sequence 31441, A
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111	31	58.5	141	9	US-11-188-298-421	Sequence 421, App	184	30	56.6	100	7	US-11-000-463-314	Sequence 314, App
112	31	58.5	149	9	US-10-530-253-17	Sequence 17, Appl	185	30	56.6	103	11	US-09-978-360A-767	Sequence 767, App
113	31	58.5	149	9	US-10-530-253-24	Sequence 24, Appl	186	30	56.6	103	9	US-10-475-075-245	Sequence 245, App
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117	31	58.5	201	11	US-11-188-298-6188	Sequence 6188, Ap	190	30	56.6	121	7	US-09-978-360A-494	Sequence 494, App
118	31	58.5	211	11	US-11-096-568A-19704	Sequence 19704, A	191	30	56.6	122	9	US-11-229-769-189	Sequence 189, App
119	31	58.5	319	11	US-11-087-099-8640	Sequence 8640, Ap	192	30	56.6	126	9	US-10-475-075-800	Sequence 800, App
120	31	58.5	336	11	US-11-087-099-10478	Sequence 10478, A	193	30	56.6	128	11	US-11-096-568A-39324	Sequence 29324, A
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122	31	58.5	363	11	US-11-087-099-9277	Sequence 9277, Ap	195	30	56.6	134	11	US-11-096-568A-33935	Sequence 33935, A
123	31	58.5	363	11	US-11-087-099-10010	Sequence 10010, A	196	30	56.6	138	11	US-11-188-298-1236	Sequence 1236, Ap
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129	31	58.5	456	11	US-11-087-099-6259	Sequence 6259, Ap	202	30	56.6	153	11	US-11-188-298-11926	Sequence 11926, A
130	31	58.5	456	11	US-11-087-099-9642	Sequence 9642, Ap	203	30	56.6	158	11	US-11-188-298-18071	Sequence 18071, A
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133	31	58.5	457	8	US-10-505-928-761	Sequence 761, App	206	30	56.6	166	11	US-11-188-298-2268	Sequence 2268, Ap
134	31	58.5	457	9	US-10-951-236-10	Sequence 1, Appl1	207	30	56.6	173	11	US-11-188-298-8372	Sequence 8372, A
135	31	58.5	457	9	US-11-087-099-5321	Sequence 5321, Ap	208	30	56.6	176	11	US-11-096-568A-12827	Sequence 12827, A
136	31	58.5	457	11	US-11-087-099-5761	Sequence 5761, Ap	209	30	56.6	185	9	US-10-821-234-1130	Sequence 1130, Ap
137	31	58.5	457	11	US-11-087-099-9118	Sequence 9118, Ap	210	30	56.6	188	11	US-11-188-298-5192	Sequence 5192, Ap
138	31	58.5	457	11	US-11-087-099-9118	Sequence 9118, Ap	211	30	56.6	188	11	US-11-188-298-10928	Sequence 10928, A
139	31	58.5	457	11	US-11-087-099-10468	Sequence 10468, A	212	30	56.6	189	11	US-11-188-298-330	Sequence 330, App
140	31	58.5	457	11	US-11-087-099-11070	Sequence 11070, A	213	30	56.6	200	11	US-11-188-298-13444	Sequence 13444, A
141	31	58.5	457	11	US-11-188-298-4860	Sequence 4860, Ap	214	30	56.6	209	11	US-11-188-298-14325	Sequence 14325, A
142	31	58.5	457	11	US-11-188-298-10321	Sequence 10321, A	215	30	56.6	202	11	US-11-188-298-12869	Sequence 12869, A
143	31	58.5	457	11	US-11-188-298-16296	Sequence 16296, A	216	30	56.6	202	11	US-11-188-298-15134	Sequence 15134, A
144	31	58.5	457	11	US-11-188-298-16296	Sequence 16296, A	217	30	56.6	202	11	US-11-188-298-22050	Sequence 22050, A
145	31	58.5	457	11	US-11-188-298-20671	Sequence 20671, A	218	30	56.6	202	11	US-11-188-298-21517	Sequence 21517, A
146	31	58.5	457	11	US-11-079-463-6414	Sequence 6414, Ap	219	30	56.6	204	11	US-11-188-298-22050	Sequence 22050, A
147	31	58.5	465	11	US-11-087-099-1964	Sequence 1964, Ap	220	30	56.6	225	11	US-11-188-298-11473	Sequence 11473, A
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149	31	58.5	466	11	US-11-087-099-8259	Sequence 8259, Ap	222	30	56.6	303	11	US-11-096-568A-30037	Sequence 30037, A
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151	31	58.5	495	11	US-11-188-298-20770	Sequence 20770, A	224	30	56.6	315	11	US-10-131-826A-29880	Sequence 29880, A
152	31	58.5	567	11	US-11-188-298-4549	Sequence 4549, Ap	225	30	56.6	317	9	US-10-131-826A-524	Sequence 524, App
153	31	58.5	567	11	US-11-188-298-8765	Sequence 8765, Ap	226	30	56.6	317	9	US-10-063-703-116	Sequence 116, App
154	31	58.5	965	11	US-11-079-463-5336	Sequence 5326, Ap	227	30	56.6	317	9	US-10-973-1158-524	Sequence 524, App
155	31	58.5	1218	9	US-11-188-298-1733	Sequence 1733, Ap	228	30	56.6	317	9	US-10-137-873A-524	Sequence 524, App
156	31	58.5	1616	9	US-10-821-234-1497	Sequence 1497, Ap	229	30	56.6	317	9	US-10-137-873A-524	Sequence 524, App
157	30	56.6	9	9	US-10-530-061-807	Sequence 807, App	230	30	56.6	317	11	US-11-196-618-2	Sequence 2, Appl1
158	30	56.6	13	9	US-10-895-064-382	Sequence 382, App	231	30	56.6	317	11	US-11-196-618-4	Sequence 4, Appl1
159	30	56.6	13	11	US-11-129-741-3312	Sequence 3312, App	232	30	56.6	317	11	US-11-196-618-6	Sequence 6, Appl1
160	30	56.6	14	9	US-10-895-064-284	Sequence 284, App	233	30	56.6	317	11	US-11-196-618-16	Sequence 16, Appl
161	30	56.6	14	11	US-11-116-144-212	Sequence 214, App	234	30	56.6	317	11	US-11-196-618-16	Sequence 16, Appl
162	30	56.6	14	11	US-11-116-144-214	Sequence 214, App	235	30	56.6	317	11	US-11-196-618-16	Sequence 16, Appl
163	30	56.6	14	11	US-11-116-144-215	Sequence 215, App	236	30	56.6	317	11	US-11-196-618-16	Sequence 16, Appl
164	30	56.6	14	11	US-11-116-144-215	Sequence 215, App	237	30	56.6	317	11	US-11-196-618-16	Sequence 16, Appl
165	30	56.6	14	11	US-11-129-741-284	Sequence 284, App	238	30	56.6	317	11	US-11-129-741-284	Sequence 284, App
166	30	56.6	14	11	US-11-129-741-3216	Sequence 3216, Ap	239	30	56.6	333	11	US-11-087-099-1315	Sequence 1315, Ap
167	30	56.6	14	11	US-11-129-741-3216	Sequence 3216, Ap	240	30	56.6	338	11	US-11-087-099-1315	Sequence 1315, Ap



241	30	56.6	338	11	US-11-087-099-1553	Sequence 1553, Ap	314	29	54.7	253	11	US-11-096-568A-7517	Sequence 7517, Ap
242	30	56.6	341	11	US-11-086-568A-2433	Sequence 2493, Ap	315	29	54.7	261	11	US-11-079-463-5752	Sequence 5752, Ap
243	30	56.6	345	9	US-10-506-454-928	Sequence 928, App	316	29	54.7	263	11	US-11-079-463-6940	Sequence 6940, Ap
244	30	56.6	343	11	US-11-188-298-5558	Sequence 5558, Ap	317	29	54.7	285	11	US-11-188-298-17365	Sequence 17365, A
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248	30	56.6	361	9	US-10-965-103-29	Sequence 29, Appl1	321	29	54.7	292	11	US-11-096-568A-15239	Sequence 15239, A
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252	30	56.6	365	11	US-11-096-568A-2491	Sequence 2491, Ap	325	29	54.7	301	11	US-11-096-568A-3266	Sequence 3266, Ap
253	30	56.6	368	11	US-11-087-099-371	Sequence 371, App	326	29	54.7	303	11	US-11-096-568A-3264	Sequence 3264, Ap
254	30	56.6	380	11	US-11-087-099-3225	Sequence 4225, Ap	327	29	54.7	305	9	US-10-506-454-55	Sequence 55, Appl1
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256	30	56.6	386	11	US-11-079-463-5776	Sequence 5776, A	329	29	54.7	306	11	US-11-188-298-20010	Sequence 20010, A
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258	30	56.6	422	9	US-10-965-103-16	Sequence 16, Appl1	331	29	54.7	309	11	US-11-096-568A-22644	Sequence 22644, A
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260	30	56.6	444	11	US-11-072-512-354	Sequence 2254, Ap	333	29	54.7	317	11	US-11-205-225-2	Sequence 2, Appl1
261	30	56.6	496	11	US-11-110-082-31	Sequence 31, Appl1	334	29	54.7	325	8	US-10-505-928-327	Sequence 327, App
262	30	56.6	510	11	US-11-079-463-9001	Sequence 9001, Ap	335	29	54.7	325	10	US-11-301-554-1816	Sequence 1816, Ap
263	30	56.6	537	11	US-11-129-442-47	Sequence 47, Appl1	336	29	54.7	329	11	US-11-087-099-3676	Sequence 3676, Ap
264	30	56.6	591	9	US-10-784-004-456	Sequence 456, App	337	29	54.7	335	8	US-10-511-937-2469	Sequence 2469, Ap
265	30	56.6	596	9	US-10-784-004-773	Sequence 773, App	338	29	54.7	339	11	US-11-087-099-8139	Sequence 8139, Ap
266	30	56.6	596	11	US-11-063-343-28	Sequence 28, Appl1	339	29	54.7	344	11	US-11-096-568A-31491	Sequence 31491, A
267	30	56.6	596	11	US-11-203-526-28	Sequence 28, Appl1	340	29	54.7	345	11	US-11-087-099-2121	Sequence 2121, Ap
268	30	56.6	700	11	US-11-079-463-7837	Sequence 7837, Ap	341	29	54.7	346	11	US-11-098-686-10637	Sequence 10637, A
269	30	56.6	748	11	US-11-079-463-9853	Sequence 9853, Ap	342	29	54.7	348	11	US-11-096-568A-31490	Sequence 31490, A
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271	30	56.6	1104	11	US-11-072-512-2506	Sequence 2506, Ap	344	29	54.7	351	11	US-11-087-099-11534	Sequence 11534, A
272	30	56.6	1539	8	US-10-511-937-2545	Sequence 2545, Ap	345	29	54.7	354	9	US-10-467-657-0058	Sequence 6058, Ap
273	30	56.6	4443	11	US-11-129-741-3478	Sequence 3478, Ap	346	29	54.7	356	11	US-11-096-568A-31489	Sequence 31489, A
274	30	56.6	4473	9	US-10-895-064-460	Sequence 460, App	347	29	54.7	358	11	US-11-096-568A-15317	Sequence 15317, A
275	30	56.6	4473	11	US-11-129-741-460	Sequence 460, App	348	29	54.7	361	9	US-10-131-826A-252	Sequence 252, App
276	29.5	55.7	384	11	US-11-096-568A-2416	Sequence 2416, Ap	349	29	54.7	361	9	US-10-973-115B-252	Sequence 252, App
277	29.5	55.7	399	11	US-11-096-568A-2415	Sequence 2415, Ap	350	29	54.7	361	9	US-10-137-873A-252	Sequence 252, App
278	29.5	55.7	408	11	US-11-096-568A-2414	Sequence 2414, Ap	351	29	54.7	361	9	US-10-152-370-252	Sequence 252, App
279	29.5	55.7	408	11	US-11-096-568A-2417	Sequence 2417, Ap	352	29	54.7	361	11	US-11-087-099-5271	Sequence 5271, Ap
280	29	54.7	15	9	US-10-530-061-1690	Sequence 1690, Ap	353	29	54.7	361	11	US-11-280-153-252	Sequence 252, App
281	29	54.7	33	11	US-10-895-064-1504	Sequence 1504, Ap	354	29	54.7	362	11	US-11-087-099-3031	Sequence 3031, Ap
282	29	54.7	33	11	US-11-129-741-1504	Sequence 1504, Ap	355	29	54.7	362	11	US-11-087-099-5935	Sequence 5935, Ap
283	29	54.7	67	9	US-10-467-657-6428	Sequence 6428, Ap	356	29	54.7	363	11	US-11-111-239-6	Sequence 6, Appl1
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285	29	54.7	88	11	US-11-172-740-1857	Sequence 1857, Ap	358	29	54.7	389	11	US-11-096-568A-21738	Sequence 21738, A
286	29	54.7	88	11	US-11-188-298-2349	Sequence 2349, Ap	359	29	54.7	392	11	US-11-096-568A-21737	Sequence 21737, A
287	29	54.7	94	9	US-10-467-657-3628	Sequence 3628, Ap	360	29	54.7	393	11	US-11-111-239-8	Sequence 8, Appl1
288	29	54.7	94	9	US-10-467-657-6394	Sequence 6394, Ap	361	29	54.7	399	9	US-10-821-234-1163	Sequence 1163, Ap
289	29	54.7	94	11	US-11-079-463-8939	Sequence 8939, Ap	362	29	54.7	399	11	US-11-111-239-10	Sequence 10, Appl1
290	29	54.7	103	9	US-10-506-454-1526	Sequence 1526, Ap	363	29	54.7	401	9	US-10-948-053-2	Sequence 2, Appl1
291	29	54.7	105	11	US-11-228-458-12	Sequence 12, Appl1	364	29	54.7	415	11	US-11-182-298-46	Sequence 989, App
292	29	54.7	106	9	US-10-530-253-32	Sequence 32, Appl1	365	29	54.7	419	9	US-10-506-454-989	Sequence 989, App
293	29	54.7	107	9	US-10-530-253-37	Sequence 37, Appl1	366	29	54.7	420	11	US-11-074-176-48	Sequence 48, Appl1
294	29	54.7	111	11	US-11-228-458-4	Sequence 4, Appl1	367	29	54.7	420	11	US-11-072-512-3885	Sequence 3885, Ap
295	29	54.7	113	11	US-11-072-512-2875	Sequence 2875, Ap	368	29	54.7	420	11	US-11-096-568A-21736	Sequence 21736, A
296	29	54.7	113	11	US-11-152-601-19	Sequence 19, Appl1	369	29	54.7	421	8	US-10-505-928-410	Sequence 410, App
297	29	54.7	117	9	US-10-467-657-2296	Sequence 2296, Ap	370	29	54.7	421	9	US-10-878-556A-173	Sequence 173, App
298	29	54.7	140	11	US-11-045-004-1974	Sequence 1974, Ap	371	29	54.7	424	11	US-11-096-568A-17960	Sequence 17960, A
299	29	54.7	148	9	US-10-530-253-22	Sequence 22, Appl1	372	29	54.7	425	11	US-11-188-298-6615	Sequence 6615, Ap
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301	29	54.7	169	11	US-11-188-298-1794	Sequence 1794, Ap	374	29	54.7	429	11	US-11-096-568A-17959	Sequence 17959, A
302	29	54.7	172	11	US-11-205-225-7	Sequence 7, Appl1	375	29	54.7	432	11	US-11-096-568A-17958	Sequence 17958, A
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304	29	54.7	178	11	US-11-205-225-6	Sequence 6, Appl1	377	29	54.7	433	11	US-11-264-096-2239	Sequence 2239, Ap
305	29	54.7	179	11	US-11-188-298-16847	Sequence 16847, A	378	29	54.7	435	11	US-11-096-568A-22502	Sequence 22502, A
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310	29	54.7	207	11	US-11-096-568A-7518	Sequence 7518, Ap	383	29	54.7	522	11	US-11-096-568A-21954	Sequence 21954, A
311	29	54.7	226	9	US-10-927-500-65	Sequence 65, Appl1	384	29	54.7	552	11	US-11-121-438-12	Sequence 12, Appl1
312	29	54.7	249	11	US-11-264-096-335	Sequence 335, App	385	29	54.7	571	11	US-11-024-959-408	Sequence 408, App
313	29	54.7	252	9	US-10-506-454-459	Sequence 459, App	386	29	54.7	574	11		

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388	29	54.7	666	11	US-11-098-686-11016	Sequence 11016, A	461	28	52.8	218	9	US-10-374-954-5	Sequence 5, Appl1
389	29	54.7	668	11	US-10-506-454-799	Sequence 799, App	462	28	52.8	218	9	US-10-921-286B-10	Sequence 10, Appl
390	29	54.7	684	11	US-11-096-568A-29369	Sequence 29369, A	463	28	52.8	218	10	US-11-263-326-129	Sequence 129, App
391	29	54.7	734	9	US-10-501-035-347	Sequence 347, App	464	28	52.8	218	10	US-11-263-326-130	Sequence 130, App
392	29	54.7	858	9	US-10-330-773-195	Sequence 195, App	465	28	52.8	218	10	US-11-263-326-174	Sequence 174, App
393	29	54.7	882	11	US-11-098-686-10893	Sequence 10893, A	466	28	52.8	220	11	US-11-096-568A-34203	Sequence 34203, A
394	29	54.7	948	9	US-10-523-477-14	Sequence 14, Appl	467	28	52.8	229	11	US-11-087-099-8480	Sequence 8480, Ap
395	29	54.7	964	11	US-11-024-959-477	Sequence 147, App	468	28	52.8	223	11	US-11-096-568A-4998	Sequence 4998, Ap
396	29	54.7	1147	9	US-10-330-773-190	Sequence 190, App	469	28	52.8	237	11	US-11-096-568A-4997	Sequence 4997, Ap
397	29	54.7	1202	9	US-10-330-773-193	Sequence 193, App	470	28	52.8	246	11	US-11-096-568A-23207	Sequence 23207, A
398	29	54.7	1713	9	US-10-766-317-2	Sequence 2, Appl	471	28	52.8	247	9	US-10-467-657-918	Sequence 918, App
399	29	54.7	1724	9	US-10-766-317-6	Sequence 6, Appl	472	28	52.8	247	11	US-11-096-568A-4996	Sequence 4996, Ap
400	29	54.7	1725	9	US-10-766-317-8	Sequence 8, Appl	473	28	52.8	248	11	US-11-096-568A-3955	Sequence 3955, Ap
401	29	54.7	1725	9	US-10-784-004-457	Sequence 457, App	474	28	52.8	248	11	US-11-096-568A-19786	Sequence 19786, A
402	29	54.7	1725	9	US-10-784-004-960	Sequence 960, App	475	28	52.8	249	11	US-11-087-099-10093	Sequence 10093, A
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405	29	54.7	1980	11	US-11-179-624-3	Sequence 3, Appl	478	28	52.8	256	11	US-11-096-568A-22890	Sequence 22890, A
406	29	54.7	2004	9	US-10-469-469-250	Sequence 250, App	479	28	52.8	256	11	US-11-096-568A-23529	Sequence 23529, A
407	29	54.7	3333	9	US-10-766-317-4	Sequence 4, Appl	480	28	52.8	256	11	US-11-188-298-324	Sequence 324, App
408	28.5	53.8	487	11	US-11-096-568A-22730	Sequence 22730, A	481	28	52.8	256	11	US-11-045-004-858	Sequence 858, App
409	28.5	53.8	530	11	US-11-096-568A-22729	Sequence 22729, A	482	28	52.8	260	11	US-11-072-512-2151	Sequence 2151, Ap
410	28.5	53.8	530	11	US-11-096-568A-22728	Sequence 22728, A	483	28	52.8	266	9	US-10-353-783-57	Sequence 57, Appl
411	28.5	53.8	756	9	US-10-330-773-731	Sequence 731, App	484	28	52.8	268	11	US-11-096-568A-25355	Sequence 25355, A
412	28	52.8	37	9	US-10-895-064-2682	Sequence 2682, Ap	485	28	52.8	270	9	US-10-988-476-2	Sequence 2, Appl1
413	28	52.8	37	11	US-11-129-741-2682	Sequence 2682, Ap	486	28	52.8	271	11	US-11-096-568A-23528	Sequence 23528, A
414	28	52.8	50	9	US-10-467-657-2158	Sequence 2158, Ap	487	28	52.8	273	9	US-10-353-783-42	Sequence 42, Appl
415	28	52.8	50	9	US-10-467-657-4814	Sequence 4814, Ap	488	28	52.8	273	9	US-10-353-783-53	Sequence 53, Appl
416	28	52.8	51	11	US-11-229-769-216	Sequence 216, App	489	28	52.8	273	9	US-10-353-783-54	Sequence 54, Appl
417	28	52.8	53	9	US-10-895-064-2756	Sequence 2756, App	490	28	52.8	273	9	US-10-353-783-55	Sequence 55, Appl
418	28	52.8	53	11	US-11-129-741-2756	Sequence 2756, Ap	491	28	52.8	273	9	US-10-988-476-4	Sequence 4, Appl1
419	28	52.8	57	9	US-10-986-501-225	Sequence 225, App	492	28	52.8	274	9	US-10-353-783-51	Sequence 51, Appl
420	28	52.8	72	11	US-11-004-399-833	Sequence 833, App	493	28	52.8	277	9	US-10-527-500-23	Sequence 23, Appl
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424	28	52.8	113	9	US-10-527-500-21	Sequence 21, Appl	497	28	52.8	286	9	US-10-467-657-5320	Sequence 5320, Ap
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438	28	52.8	135	9	US-10-523-362-32	Sequence 32, Appl	511	28	52.8	337	9	US-10-219-061-236	Sequence 236, App
439	28	52.8	138	11	US-11-008-727-2	Sequence 2, Appl1	512	28	52.8	337	9	US-10-219-062-236	Sequence 236, App
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441	28	52.8	142	9	US-10-467-657-1558	Sequence 1558, Ap	514	28	52.8	337	9	US-10-233-134-236	Sequence 236, App
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457	28	52.8	212	11	US-11-000-463-429	Sequence 429, App	530	28	52.8	343	11	US-11-087-099-5105	Sequence 5105, Ap
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543	28	52.8	368	11	US-11-096-568A-23206	Sequence 23206, A	616	28	52.8	670	9	US-10-455-772-446	Sequence 446, App
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563	28	52.8	402	9	US-10-131-826A-468	Sequence 468, App	636	28	52.8	1669	9	US-10-330-773-392	Sequence 33051, A
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570	28	52.8	402	9	US-10-137-873A-468	Sequence 468, App	643	28	52.8	3712	11	US-11-019-711-51	Sequence 55, Appl
571	28	52.8	402	9	US-10-152-370-468	Sequence 468, App	644	28	52.8	4060	11	US-11-004-399-714	Sequence 714, App
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686	27	50.9	158	11	US-11-096-568A-1566	Sequence 1566, Ap	759	27	50.9	347	9	US-10-467-657-2962	Sequence 2962, Ap
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688	27	50.9	160	11	US-11-010-874-12	Sequence 12, App1	761	27	50.9	347	11	US-11-087-099-1248	Sequence 1248, Ap
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## ALIGNMENTS

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; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 15  
; LENGTH: 158  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 18  
US-10-530-253-15  
Query Match 100.0%; Score 53; DB 9; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.071;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 EITCVYCKT 9  
Db 29 EITCVYCKT 37  
RESULT 2  
US-10-530-061-1659  
; Sequence 1659, Application US/10530061  
; Publication No. US20060079453A1

; GENERAL INFORMATION:  
; APPLICANT: SIDNEY, JOHN  
; APPLICANT: SOUTHWOOD, SCOTT  
; APPLICANT: SETTE, ALESSANDRO  
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
; FILE REFERENCE: 2060.033US02/EKS/M-M  
; CURRENT APPLICATION NUMBER: US/10/530,061  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US03/31308  
; PRIOR FILING DATE: 2003-10-03  
; PRIOR APPLICATION NUMBER: 60/416,207  
; PRIOR FILING DATE: 2002-10-03  
; PRIOR APPLICATION NUMBER: 60/417,269  
; PRIOR FILING DATE: 2002-10-08  
; NUMBER OF SEQ ID NOS: 2503  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 517  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Human papillomavirus  
US-10-530-061-517  
Query Match 84.9%; Score 45; DB 9; Length 10;  
Best Local Similarity 87.5%; Pred. No. 0.16;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
QY 1 EITCVYCK 8  
Db 3 EITCVYCKR 10  
RESULT 3  
US-10-530-061-517  
; Sequence 517, Application US/10530061  
; Publication No. US20060079453A1  
; GENERAL INFORMATION:  
; APPLICANT: SIDNEY, JOHN  
; APPLICANT: SOUTHWOOD, SCOTT  
; APPLICANT: SETTE, ALESSANDRO  
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
; FILE REFERENCE: 2060.033US02/EKS/M-M  
; CURRENT APPLICATION NUMBER: US/10/530,061  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US03/31308  
; PRIOR FILING DATE: 2003-10-03  
; PRIOR APPLICATION NUMBER: 60/416,207  
; PRIOR FILING DATE: 2002-10-03  
; PRIOR APPLICATION NUMBER: 60/417,269  
; PRIOR FILING DATE: 2002-10-08  
; NUMBER OF SEQ ID NOS: 2503  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 517  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Human papillomavirus  
US-10-530-061-517  
Query Match 90.6%; Score 48; DB 9; Length 15;  
Best Local Similarity 100.0%; Pred. No. 0.074;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 EITCVYCK 8  
Db 8 EITCVYCK 15  
RESULT 4  
US-11-098-686-10919  
; Sequence 10919, Application US/11098686  
; Publication No. US20060024696A1  
; GENERAL INFORMATION:  
; APPLICANT: Kapur, Vivek and Gebhart, Connie J.  
; TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES

TITLE OF INVENTION: FROM LAWSONIA INTRACELLULARIS AND METHODS OF USING  
FILE REFERENCE: 09531-128001  
CURRENT APPLICATION NUMBER: US/11/098,686  
CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US03/31318  
PRIOR FILING DATE: 2003-10-01  
PRIOR APPLICATION NUMBER: US 60/416,395  
PRIOR FILING DATE: 2002-10-04  
NUMBER OF SEQ ID NOS: 11433  
SOFTWARE: PastSeq for Windows Version 4.0  
SEQ ID NO 10919  
LENGTH: 454  
TYPE: PRT  
ORGANISM: Lawsonia intracellularis  
US-11-098-686-10919

Query Match 75.5%; Score 40; DB 11; Length 454;  
Best Local Similarity 62.5%; Pred. No. 20;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 EITCVYCK 8  
|:|:|:|:  
Db 191 EITCLYCK 198

RESULT 5  
US-10-530-253-21  
Sequence 21, Application US/10530253  
Publication No. US20060014926A1  
GENERAL INFORMATION:  
APPLICANT: Casasetti, Maria C.  
APPLICANT: Smith, Larry  
APPLICANT: Jeffrey K. Pullen  
APPLICANT: Susan P. McElhinney  
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
FILE REFERENCE: 00630/100M137-US2  
CURRENT APPLICATION NUMBER: US/10/530,253  
CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US2003/031726  
PRIOR FILING DATE: 2003-10-02  
PRIOR APPLICATION NUMBER: US 60/415,929  
PRIOR FILING DATE: 2002-10-03  
NUMBER OF SEQ ID NOS: 65  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 21  
LENGTH: 151  
TYPE: PRT  
ORGANISM: Human papillomavirus type 51  
US-10-530-253-21

Query Match 73.6%; Score 39; DB 9; Length 151;  
Best Local Similarity 62.5%; Pred. No. 12;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 EITCVYCK 8  
|:|:|:|:  
Db 27 QVVCYVYCK 34

RESULT 6  
US-10-873-528-153  
Sequence 153, Application US/10873528  
Publication No. US20050276814A1  
GENERAL INFORMATION:  
APPLICANT: Microbial Technics Limited  
APPLICANT: Gilbert, Christophe FG  
APPLICANT: Hansbro, Philip M  
TITLE OF INVENTION: Proteins  
FILE REFERENCE: PWC/B21129W0  
CURRENT APPLICATION NUMBER: US/10/873,528  
CURRENT FILING DATE: 2004-06-23  
PRIOR APPLICATION NUMBER: US/09/769,787  
PRIOR FILING DATE: 2001-01-26

PRIOR APPLICATION NUMBER: GB 9816337.1  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: US 60/125164  
PRIOR FILING DATE: 1999-03-19  
NUMBER OF SEQ ID NOS: 388  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 153  
LENGTH: 290  
TYPE: PRT  
ORGANISM: Streptococcus pneumoniae  
US-10-873-528-153

Query Match 73.6%; Score 39; DB 9; Length 290;  
Best Local Similarity 66.7%; Pred. No. 20;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 EITCVYCKT 9  
|:|:|:|:  
Db 265 EITCFCQT 273

RESULT 7  
US-10-530-061-621  
Sequence 621, Application US/10530061  
Publication No. US20060079453A1  
GENERAL INFORMATION:  
APPLICANT: SIDNEY, JOHN  
APPLICANT: SOUTHWOOD, SCOTT  
APPLICANT: SETTE, ALESSANDRO  
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
FILE REFERENCE: 2060.03US02/EKS/M-M  
CURRENT APPLICATION NUMBER: US/10/530,061  
CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US03/31308  
PRIOR FILING DATE: 2003-10-03  
PRIOR APPLICATION NUMBER: 60/416,207  
PRIOR FILING DATE: 2002-10-03  
PRIOR APPLICATION NUMBER: 60/417,269  
PRIOR FILING DATE: 2002-10-08  
NUMBER OF SEQ ID NOS: 2503  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 621  
LENGTH: 9  
TYPE: PRT  
ORGANISM: Human papillomavirus  
US-10-530-061-621

Query Match 71.7%; Score 38; DB 9; Length 9;  
Best Local Similarity 85.7%; Pred. No. 1.9e+05;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVYCK 8  
|:|:|:|:  
Db 2 IACVYCK 8

RESULT 8  
US-10-530-061-560  
Sequence 560, Application US/10530061  
Publication No. US20060079453A1  
GENERAL INFORMATION:  
APPLICANT: SIDNEY, JOHN  
APPLICANT: SOUTHWOOD, SCOTT  
APPLICANT: SETTE, ALESSANDRO  
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
FILE REFERENCE: 2060.03US02/EKS/M-M  
CURRENT APPLICATION NUMBER: US/10/530,061  
CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US03/31308  
PRIOR FILING DATE: 2003-10-03  
PRIOR APPLICATION NUMBER: 60/416,207  
PRIOR FILING DATE: 2002-10-03  
PRIOR APPLICATION NUMBER: 60/417,269

;; PRIOR FILING DATE: 2002-10-08  
;; NUMBER OF SEQ ID NOS: 2503  
;; SOFTWARE: PatentIn version 3.3  
;; SEQ ID NO 560  
;; LENGTH: 10  
;; TYPE: PRT  
;; ORGANISM: Human papillomavirus  
US-10-530-061-560

Query Match 71.7%; Score 38; DB 9; Length 10;  
Best Local Similarity 85.7%; Pred. No. 2.2;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVCK 8  
Db 4 IACVCK 10

## RESULT 9

US-10-530-253-20  
; Sequence 20, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Casasetti, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; PRIOR FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 20  
; LENGTH: 158  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 45  
US-10-530-253-20

Query Match 71.7%; Score 38; DB 9; Length 158;  
Best Local Similarity 85.7%; Pred. No. 18;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVCK 8  
Db 30 IACVCK 36

RESULT 10  
US-10-530-061-493  
; Sequence 493, Application US/10530061  
; Publication No. US20060079453A1  
; GENERAL INFORMATION:  
; APPLICANT: SIDNEY, JOHN  
; APPLICANT: SOUTHWOOD, SCOTT  
; APPLICANT: SETTE, ALESSANDRO  
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
; FILE REFERENCE: 2060.033US02/EKS/M-M  
; CURRENT APPLICATION NUMBER: US/10/530,061  
; PRIOR FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US03/31308  
; PRIOR FILING DATE: 2003-10-03  
; PRIOR APPLICATION NUMBER: 60/416,207  
; PRIOR FILING DATE: 2002-10-03  
; PRIOR APPLICATION NUMBER: 60/417,269  
; NUMBER OF SEQ ID NOS: 2503  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 493

;; LENGTH: 11  
;; TYPE: PRT  
;; ORGANISM: Human papillomavirus  
US-10-530-061-493

Query Match 69.8%; Score 37; DB 9; Length 11;  
Best Local Similarity 71.4%; Pred. No. 3.4;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 ITCVCK 8  
Db 4 IACVCK 10

## RESULT 11

US-10-530-061-1691  
; Sequence 1691, Application US/10530061  
; Publication No. US20060079453A1  
; GENERAL INFORMATION:  
; APPLICANT: SIDNEY, JOHN  
; APPLICANT: SOUTHWOOD, SCOTT  
; APPLICANT: SETTE, ALESSANDRO  
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
; FILE REFERENCE: 2060.033US02/EKS/M-M  
; CURRENT APPLICATION NUMBER: US/10/530,061  
; PRIOR FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US03/31308  
; PRIOR FILING DATE: 2003-10-03  
; PRIOR APPLICATION NUMBER: 60/416,207  
; PRIOR FILING DATE: 2002-10-03  
; PRIOR APPLICATION NUMBER: 60/417,269  
; PRIOR FILING DATE: 2002-10-08  
; NUMBER OF SEQ ID NOS: 2503  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1691  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Human papillomavirus  
US-10-530-061-1691

Query Match 69.8%; Score 37; DB 9; Length 15;  
Best Local Similarity 71.4%; Pred. No. 4.3;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 ITCVCK 8  
Db 9 IACVCK 15

RESULT 12  
US-10-530-253-23  
; Sequence 23, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Casasetti, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; PRIOR FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 23  
; LENGTH: 155  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 56  
US-10-530-253-23



Query Match 69.8%; Score 37; DB 9; Length 155;  
Best Local Similarity 71.4%; Pred. No. 26;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 ITCVYCK 8  
: |||||  
Db 31 LNCVYCK 37

RESULT 13  
US-10-530-061-1667  
; Sequence 1667, Application US/10530061  
; Publication No. US20060079453A1  
; GENERAL INFORMATION:  
; APPLICANT: SIDNEY, JOHN  
; APPLICANT: SOUTHWOOD, SCOTT  
; APPLICANT: SETTE, ALESSANDRO  
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
; FILE REFERENCE: 2060.03US02/EKS/M-M  
; CURRENT APPLICATION NUMBER: US/10/530,061  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US03/31308  
; PRIOR FILING DATE: 2003-10-03  
; PRIOR APPLICATION NUMBER: 60/416,207  
; PRIOR FILING DATE: 2002-10-03  
; PRIOR APPLICATION NUMBER: 60/417,269  
; PRIOR FILING DATE: 2002-10-08  
; NUMBER OF SEQ ID NOS: 2503  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1667  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Human papillomavirus  
US-10-530-061-1667

Query Match 67.9%; Score 36; DB 9; Length 15;  
Best Local Similarity 71.4%; Pred. No. 6.3;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 ITCVYCK 8  
: |||||  
Db 9 LNCVYCK 15

RESULT 14  
US-10-530-253-16  
; Sequence 16, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Cassetti, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 16  
; LENGTH: 149  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 31  
US-10-530-253-16

Query Match 67.9%; Score 36; DB 9; Length 149;  
Best Local Similarity 71.4%; Pred. No. 37;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 ITCVYCK 8  
: |||||  
Db 28 LNCVYCK 34

RESULT 15  
US-10-530-253-18  
; Sequence 18, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Cassetti, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 18  
; LENGTH: 149  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 35  
US-10-530-253-18

Query Match 67.9%; Score 36; DB 9; Length 149;  
Best Local Similarity 71.4%; Pred. No. 37;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 ITCVYCK 8  
: |||||  
Db 28 LNCVYCK 34

RESULT 16  
US-11-188-298-18431  
; Sequence 18431, Application US/11188298  
; Publication No. US20060075522A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
; FILE REFERENCE: 38-21(53452)B  
; CURRENT APPLICATION NUMBER: US/11/188,298  
; CURRENT FILING DATE: 2005-07-22  
; PRIOR APPLICATION NUMBER: 60/592,978  
; PRIOR FILING DATE: 2004-07-31  
; NUMBER OF SEQ ID NOS: 22569  
; SEQ ID NO 18431  
; LENGTH: 769  
; TYPE: PRT  
; ORGANISM: Panax ginseng  
US-11-188-298-18431

Query Match 67.9%; Score 36; DB 11; Length 769;  
Best Local Similarity 87.5%; Pred. No. 1.3e+02;  
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 EITCVYCK 8  
: |||||  
Db 727 EITCVYCK 734

RESULT 17  
US-10-530-061-620  
; Sequence 620, Application US/10530061  
; Publication No. US20060079453A1  
; GENERAL INFORMATION:

```

; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 620
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-620

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Query Match          66.0%; Score 35; DB 9; Length 9;
Best Local Similarity 71.4%; Pred. No. 1.9e+05;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

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QY 2 ITCVCK 8
   :|||||
Db 3 IACVCK 9

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RESULT 18
; Sequence 561, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 561
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-561

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Query Match          66.0%; Score 35; DB 9; Length 10;
Best Local Similarity 71.4%; Pred. No. 6.7;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

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QY 2 ITCVCK 8
   :|||||
Db 4 IACVCK 10

```

```

RESULT 19
US-10-530-061-1692
; Sequence 1692, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO

```

```

; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 1692
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1692

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Query Match          66.0%; Score 35; DB 9; Length 15;
Best Local Similarity 83.3%; Pred. No. 9.1;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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```

QY 3 TCVCK 8
   :|||||
Db 1 SCVCK 6

```

```

RESULT 20
US-10-530-253-13
; Sequence 13, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 13
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-13

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Query Match          66.0%; Score 35; DB 9; Length 151;
Best Local Similarity 71.4%; Pred. No. 53;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

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QY 2 ITCVCK 8
   :|||||
Db 28 LECVCK 34

```

```

RESULT 21
US-10-530-253-19
; Sequence 19, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253

```

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; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 19
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 39
US-10-530-253-19

Query Match          66.0%; Score 35; DB 9; Length 158;
Best Local Similarity 71.4%; Pred. No. 55;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 ITCVYCK 8
       : |||||
Db      30 IACVYCR 36

RESULT 22
US-11-206-138-3
; Sequence 3, Application US/11206138
; Publication No. US20060039919A1
; GENERAL INFORMATION:
; APPLICANT: Healthbanc Biotech CO. LTD.
; TITLE OF INVENTION: Fusion protein for inhibiting cervical cancer
; FILE REFERENCE: P7819/0613
; CURRENT APPLICATION NUMBER: US/11/206,138
; CURRENT FILING DATE: 2005-08-18
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-11-206-138-3

Query Match          66.0%; Score 35; DB 11; Length 158;
Best Local Similarity 71.4%; Pred. No. 55;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 ITCVYCK 8
       : |||||
Db      35 IECVYCK 41

RESULT 23
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-1
```

```

Query Match          66.0%; Score 35; DB 9; Length 248;
Best Local Similarity 71.4%; Pred. No. 78;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 ITCVYCK 8
       : |||||
Db      28 IECVYCK 34

RESULT 24
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-3

Query Match          66.0%; Score 35; DB 9; Length 248;
Best Local Similarity 71.4%; Pred. No. 78;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 ITCVYCK 8
       : |||||
Db      28 IECVYCK 34

RESULT 25
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-5

Query Match          66.0%; Score 35; DB 9; Length 248;
Best Local Similarity 71.4%; Pred. No. 78;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

QY 2 ITCYCK 8  
: |||||  
Db 28 LECYCK 34

RESULT 26  
US-10-530-253-7  
; Sequence 7, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Casaretti, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; PRIOR FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 7  
; LENGTH: 248  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-10-530-253-7

Query Match 66.0%; Score 35; DB 9; Length 248;  
Best Local Similarity 71.4%; Pred. No. 78;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCYCK 8  
: |||||  
Db 125 LECYCK 131

RESULT 27  
US-10-530-253-9  
; Sequence 9, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Casaretti, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; PRIOR FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 9  
; LENGTH: 248  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-10-530-253-9

Query Match 66.0%; Score 35; DB 9; Length 248;  
Best Local Similarity 71.4%; Pred. No. 78;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCYCK 8  
: |||||  
Db 125 LECYCK 131

RESULT 28  
US-10-530-253-11  
; Sequence 11, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Casaretti, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; PRIOR FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 11  
; LENGTH: 248  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-10-530-253-11

Query Match 66.0%; Score 35; DB 9; Length 248;  
Best Local Similarity 71.4%; Pred. No. 78;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCYCK 8  
: |||||  
Db 125 LECYCK 131

RESULT 29  
US-11-192-923A-2  
; Sequence 2, Application US/11192923A  
; Publication No. US20060018928A1  
; GENERAL INFORMATION:  
; APPLICANT: PANG, XIAOMU  
; TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS  
; FILE REFERENCE: 116620-003  
; CURRENT APPLICATION NUMBER: US/11/192,923A  
; PRIOR FILING DATE: 2005-07-29  
; PRIOR APPLICATION NUMBER: CN 03115272.4  
; PRIOR FILING DATE: 2003-01-30  
; PRIOR APPLICATION NUMBER: CN 03115273.2  
; PRIOR FILING DATE: 2003-01-30  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: PatentIn Ver. 3.3  
; SEQ ID NO 2  
; LENGTH: 256  
; TYPE: PRT  
; ORGANISM: Human papillomavirus  
US-11-192-923A-2

Query Match 66.0%; Score 35; DB 11; Length 256;  
Best Local Similarity 71.4%; Pred. No. 80;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCYCK 8  
: |||||  
Db 133 LECYCK 139

RESULT 30  
US-11-087-099-4918  
; Sequence 4918, Application US/11087099  
; Publication No. US20060041961A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: Genes and Uses for Plant Improvement

```
FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 4918
; LENGTH: 352
; TYPE: PRT
; ORGANISM: Lactobacillus plantarum WCF81
US-11-087-099-4918

Query Match          66.0%; Score 35; DB 11; Length 352;
Best Local Similarity 83.3%; Pred. No. 1e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      3 TCYVCK 8
        |||||
Db       94 TCYVCK 99

RESULT 31
US-10-455-772-1074
; Sequence 1074, Application US/10455772
; Publication No. US20060084054A1
; GENERAL INFORMATION:
; APPLICANT: John Alsobrook et al.
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-589C
; CURRENT APPLICATION NUMBER: US/10/455,772
; CURRENT FILING DATE: 2003-06-04
; PRIOR APPLICATION NUMBER: 60/385615
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/402268
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: 60/387606
; PRIOR FILING DATE: 2002-06-11
; PRIOR APPLICATION NUMBER: 60/386357
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: 60/385755
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/386355
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: 60/385490
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/420718
; PRIOR FILING DATE: 2002-10-23
; PRIOR APPLICATION NUMBER: 60/386447
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: 60/386465
; PRIOR FILING DATE: 2002-06-06
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1540
; SOFTWARE: Curaseqdist version 0.1
; SEQ ID NO 1074
; LENGTH: 850
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-455-772-1074

Query Match          66.0%; Score 35; DB 9; Length 850;
Best Local Similarity 50.0%; Pred. No. 2e+02;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      2 ITCVYCKT 9
        :|||:
Db       639 VTCVYCKNS 646

RESULT 32
US-10-455-772-1078
; Sequence 1078, Application US/10455772
; Publication No. US20060084054A1
; GENERAL INFORMATION:
; APPLICANT: John Alsobrook et al.

TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-589C
; CURRENT APPLICATION NUMBER: US/10/455,772
; Publication No. US20060084054A1
; GENERAL INFORMATION:
; APPLICANT: John Alsobrook et al.
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-589C
; CURRENT APPLICATION NUMBER: US/10/455,772
; CURRENT FILING DATE: 2003-06-04
; PRIOR APPLICATION NUMBER: 60/385615
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/402268
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: 60/387606
; PRIOR FILING DATE: 2002-06-11
; PRIOR APPLICATION NUMBER: 60/386357
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: 60/385755
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/385490
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/420718
; PRIOR FILING DATE: 2002-10-23
; PRIOR APPLICATION NUMBER: 60/386447
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: 60/386465
; PRIOR FILING DATE: 2002-06-06
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1540
; SOFTWARE: Curaseqdist version 0.1
; SEQ ID NO 1078
; LENGTH: 911
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-455-772-1078

Query Match          66.0%; Score 35; DB 9; Length 911;
Best Local Similarity 50.0%; Pred. No. 2.1e+02;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      2 ITCVYCKT 9
        :|||:
Db       639 VTCVYCKNS 646

RESULT 33
US-10-455-772-1076
; Sequence 1076, Application US/10455772
; Publication No. US20060084054A1
; GENERAL INFORMATION:
; APPLICANT: John Alsobrook et al.
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-589C
; CURRENT APPLICATION NUMBER: US/10/455,772
; CURRENT FILING DATE: 2003-06-04
; PRIOR APPLICATION NUMBER: 60/385615
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/402268
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/387606
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: 60/386357
; PRIOR FILING DATE: 2002-06-11
; PRIOR APPLICATION NUMBER: 60/385755
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: 60/385490
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/420718
; PRIOR FILING DATE: 2002-10-23
; PRIOR APPLICATION NUMBER: 60/386447
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: 60/386465
; PRIOR FILING DATE: 2002-06-06
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1540
; SOFTWARE: Curaseqdist version 0.1
; SEQ ID NO 1076
; LENGTH: 850
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-455-772-1076
```

NUMBER OF SEQ ID NOS: 1540  
SOFTWARE: Curaseqblast version 0.1  
SEQ ID NO 1076  
LENGTH: 915  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-455-772-1076

Query Match 66.0%; Score 35; DB 9; Length 915;  
Best Local Similarity 50.0%; Pred. No. 2.1e+02;  
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVYCKT 9  
DB 643 VTCLYCKNS 650

RESULT 34  
US-10-455-772-1080  
Sequence 1080, Application US/10455772  
Publication No. US20060084054A1  
GENERAL INFORMATION:  
APPLICANT: John Alsobrook et al.  
TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME  
FILE REFERENCE: 21402-589C  
CURRENT APPLICATION NUMBER: US/10/455,772  
CURRENT FILING DATE: 2003-06-04  
PRIOR APPLICATION NUMBER: 60/385615  
PRIOR FILING DATE: 2002-06-04  
PRIOR APPLICATION NUMBER: 60/402268  
PRIOR FILING DATE: 2002-08-09  
PRIOR APPLICATION NUMBER: 60/387606  
PRIOR FILING DATE: 2002-06-11  
PRIOR APPLICATION NUMBER: 60/386357  
PRIOR FILING DATE: 2002-06-06  
PRIOR APPLICATION NUMBER: 60/385755  
PRIOR FILING DATE: 2002-06-04  
PRIOR APPLICATION NUMBER: 60/386355  
PRIOR FILING DATE: 2002-06-06  
PRIOR APPLICATION NUMBER: 60/386490  
PRIOR FILING DATE: 2002-06-04  
PRIOR APPLICATION NUMBER: 60/420718  
PRIOR FILING DATE: 2002-10-23  
PRIOR APPLICATION NUMBER: 60/386447  
PRIOR FILING DATE: 2002-06-06  
PRIOR APPLICATION NUMBER: 60/386465  
PRIOR FILING DATE: 2002-06-06  
Remainder of Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 1540  
SOFTWARE: Curaseqblast version 0.1  
SEQ ID NO 1080  
LENGTH: 921  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-455-772-1080

Query Match 66.0%; Score 35; DB 9; Length 921;  
Best Local Similarity 50.0%; Pred. No. 2.1e+02;  
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVYCKT 9  
DB 639 VTCLYCKNS 646

RESULT 35  
US-10-530-061-55  
Sequence 55, Application US/10530061  
Publication No. US20060079453A1  
GENERAL INFORMATION:  
APPLICANT: SIDNEY, JOHN  
APPLICANT: SOUTHWOOD, SCOTT  
APPLICANT: SETTE, ALESSANDRO

TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
FILE REFERENCE: 2060.033US02/EKS/M-M  
CURRENT APPLICATION NUMBER: US/10/530,061  
CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US03/31308  
PRIOR FILING DATE: 2003-10-03  
PRIOR APPLICATION NUMBER: 60/416,207  
PRIOR FILING DATE: 2002-10-03  
PRIOR APPLICATION NUMBER: 60/417,269  
PRIOR FILING DATE: 2002-10-08  
NUMBER OF SEQ ID NOS: 2503  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 55  
LENGTH: 10  
TYPE: PRT  
ORGANISM: Human papillomavirus  
US-10-530-061-55

Query Match 64.2%; Score 34; DB 9; Length 10;  
Best Local Similarity 100.0%; Pred. No. 9.6;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EITCVY 6  
DB 5 EITCVY 10

RESULT 36  
US-10-530-061-112  
Sequence 112, Application US/10530061  
Publication No. US20060079453A1  
GENERAL INFORMATION:  
APPLICANT: SIDNEY, JOHN  
APPLICANT: SOUTHWOOD, SCOTT  
APPLICANT: SETTE, ALESSANDRO  
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
FILE REFERENCE: 2060.033US02/EKS/M-M  
CURRENT APPLICATION NUMBER: US/10/530,061  
CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US03/31308  
PRIOR FILING DATE: 2003-10-03  
PRIOR APPLICATION NUMBER: 60/416,207  
PRIOR FILING DATE: 2002-10-03  
PRIOR APPLICATION NUMBER: 60/417,269  
PRIOR FILING DATE: 2002-10-08  
NUMBER OF SEQ ID NOS: 2503  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 112  
LENGTH: 10  
TYPE: PRT  
ORGANISM: Human papillomavirus  
US-10-530-061-112

Query Match 64.2%; Score 34; DB 9; Length 10;  
Best Local Similarity 100.0%; Pred. No. 9.6;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EITCVY 6  
DB 5 EITCVY 10

RESULT 37  
US-10-530-061-562  
Sequence 562, Application US/10530061  
Publication No. US20060079453A1  
GENERAL INFORMATION:  
APPLICANT: SIDNEY, JOHN  
APPLICANT: SOUTHWOOD, SCOTT  
APPLICANT: SETTE, ALESSANDRO  
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
FILE REFERENCE: 2060.033US02/EKS/M-M  
CURRENT APPLICATION NUMBER: US/10/530,061

```
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 562
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-562
```

```
Query Match          64.2%; Score 34; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 9.6;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      4 CVYCK 8
        |||||
Db       1 CVYCK 5
```

```
RESULT 38
US-11-079-463-5531
; Sequence 5531, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRA
; FILE REFERENCE: PATHO-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 5531
; LENGTH: 122
; TYPE: PRT
; ORGANISM: B. fragilis
US-11-079-463-5531
```

```
Query Match          64.2%; Score 34; DB 11; Length 122;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      4 CVYCK 8
        |||||
Db       46 CVYCK 50
```

```
RESULT 39
US-10-530-253-39
; Sequence 39, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
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; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 39
; LENGTH: 152
; TYPE: PRT
; ORGANISM: Human papillomavirus
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)-(152)
; OTHER INFORMATION: where Xaa is any amino acid
US-10-530-253-39
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Query Match          64.2%; Score 34; DB 9; Length 152;
Best Local Similarity 100.0%; Pred. No. 78;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      4 CVYCK 8
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Db       32 CVYCK 36
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RESULT 40
US-10-530-253-26
; Sequence 26, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 26
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 68
US-10-530-253-26
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Query Match          64.2%; Score 34; DB 9; Length 158;
Best Local Similarity 71.4%; Pred. No. 80;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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QY      2 ITCVYCK 8
        |||||
Db       30 IDCYVCR 36
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RESULT 41
US-10-530-253-25
; Sequence 25, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
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SEQ ID NO 25  
LENGTH: 160  
TYPE: PRT  
ORGANISM: Human papillomavirus type 59  
US-10-530-253-25

Query Match 64.2%; Score 34; DB 9; Length 160;  
Best Local Similarity 71.4%; Pred. No. 81;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 TCVYCK 8  
DB 30 INCVCK 36

RESULT 42  
US-10-501-035-342  
Sequence 342, Application US/10501035  
Publication No. US20060046249A1  
GENERAL INFORMATION:

APPLICANT: Bristol-Myers Squibb Company  
TITLE OF INVENTION: IDENTIFICATION OF POLYNUCLEOTIDES AND POLYPEPTIDE FOR PREDICTING  
TITLE OF INVENTION: ACTIVITY OF COMPOUNDS THAT INTERACT WITH PROTEIN TYROSINE KINASE  
FILE REFERENCE: D0185 PCT  
CURRENT APPLICATION NUMBER: US/10/501,035  
CURRENT FILING DATE: 2004-07-09  
PRIOR APPLICATION NUMBER: US 60/350,061  
PRIOR FILING DATE: 2002-01-18  
NUMBER OF SEQ ID NOS: 795  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO 342  
LENGTH: 341  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-501-035-342

Query Match 64.2%; Score 34; DB 9; Length 341;  
Best Local Similarity 50.0%; Pred. No. 1.4e+02;  
Matches 4; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 TCVYCKT 9  
DB 36 VKCTYCKT 43

RESULT 43  
US-11-087-099-1673  
Sequence 1673, Application US/11087099  
Publication No. US20060041961A1  
GENERAL INFORMATION:  
APPLICANT: Abad, Mark S. et al.  
TITLE OF INVENTION: Genes and Uses for Plant Improvement  
FILE REFERENCE: 38-21(53450)B EP  
CURRENT APPLICATION NUMBER: US/11/087,099  
CURRENT FILING DATE: 2005-03-22  
NUMBER OF SEQ ID NOS: 12464  
SEQ ID NO 1673  
LENGTH: 349  
TYPE: PRT  
ORGANISM: Streptococcus pyogenes MGAS315  
US-11-087-099-1673

Query Match 64.2%; Score 34; DB 11; Length 349;  
Best Local Similarity 83.3%; Pred. No. 1.5e+02;  
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TCVYCK 8  
DB 92 TCVYCK 97

RESULT 44

US-11-087-099-3545  
Sequence 3545, Application US/11087099  
Publication No. US20060041961A1  
GENERAL INFORMATION:

APPLICANT: Abad, Mark S. et al.  
TITLE OF INVENTION: Genes and Uses for Plant Improvement  
FILE REFERENCE: 38-21(53450)B EP  
CURRENT APPLICATION NUMBER: US/11/087,099  
CURRENT FILING DATE: 2005-03-22  
NUMBER OF SEQ ID NOS: 12464  
SEQ ID NO 3545  
LENGTH: 349  
TYPE: PRT  
ORGANISM: Streptococcus pyogenes MGAS8232  
US-11-087-099-3545

Query Match 64.2%; Score 34; DB 11; Length 349;  
Best Local Similarity 83.3%; Pred. No. 1.5e+02;  
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TCVYCK 8  
DB 92 TCVYCK 97

RESULT 45  
US-11-087-099-7966  
Sequence 7966, Application US/11087099  
Publication No. US20060041961A1  
GENERAL INFORMATION:  
APPLICANT: Abad, Mark S. et al.  
TITLE OF INVENTION: Genes and Uses for Plant Improvement  
FILE REFERENCE: 38-21(53450)B EP  
CURRENT APPLICATION NUMBER: US/11/087,099  
CURRENT FILING DATE: 2005-03-22  
NUMBER OF SEQ ID NOS: 12464  
SEQ ID NO 7966  
LENGTH: 349  
TYPE: PRT  
ORGANISM: Streptococcus pyogenes M1 GAS  
US-11-087-099-7966

Query Match 64.2%; Score 34; DB 11; Length 349;  
Best Local Similarity 83.3%; Pred. No. 1.5e+02;  
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TCVYCK 8  
DB 92 TCVYCK 97

RESULT 46  
US-11-087-099-2242  
Sequence 2242, Application US/11087099  
Publication No. US20060041961A1  
GENERAL INFORMATION:  
APPLICANT: Abad, Mark S. et al.  
TITLE OF INVENTION: Genes and Uses for Plant Improvement  
FILE REFERENCE: 38-21(53450)B EP  
CURRENT APPLICATION NUMBER: US/11/087,099  
CURRENT FILING DATE: 2005-03-22  
NUMBER OF SEQ ID NOS: 12464  
SEQ ID NO 2242  
LENGTH: 351  
TYPE: PRT  
ORGANISM: Streptococcus agalactiae NEM316  
US-11-087-099-2242

Query Match 64.2%; Score 34; DB 11; Length 351;  
Best Local Similarity 83.3%; Pred. No. 1.5e+02;  
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TCVYCK 8



Db 92 TCYCK 97

RESULT 47  
US-11-087-099-8245  
; Sequence 8245, Application US/11087099  
; Publication No. US20060041961A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: Genes and Uses for Plant Improvement  
; FILE REFERENCE: 38-21(53450)B EP  
; CURRENT APPLICATION NUMBER: US/11/087,099  
; CURRENT FILING DATE: 2005-03-22  
; NUMBER OF SEQ ID NOS: 12464  
; SEQ ID NO 8245  
; LENGTH: 351  
; TYPE: PRT  
; ORGANISM: Streptococcus agalactiae 2603V/R  
US-11-087-099-8245

Query Match 64.2%; Score 34; DB 11; Length 351;  
Best Local Similarity 83.3%; Pred. No. 1.5e+02;  
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TCYCK 8  
Db 92 TCYCK 97

RESULT 48  
US-10-506-454-307  
; Sequence 307, Application US/10506454  
; Publication No. US20060068386A1  
; GENERAL INFORMATION:  
; APPLICANT: Slesarev, Alexi I  
; APPLICANT: Mezhnevaya, Katja V  
; APPLICANT: Polushin, Nikolai N  
; APPLICANT: Shcherbinina, Olga V  
; APPLICANT: Shakhova, Vera V  
; APPLICANT: Malykh, Andrei G  
; APPLICANT: Kozayavkin, Sergei A  
; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile  
; TITLE OF INVENTION: Methanopyrus Kandleri AV19 and Monophyly of Archaeal Methanogens  
; TITLE OF INVENTION: and Methods of Use Thereof  
; FILE REFERENCE: FID001  
; CURRENT APPLICATION NUMBER: US/10/506,454  
; CURRENT FILING DATE: 2004-08-31  
; PRIOR APPLICATION NUMBER: PCT/US03/06664  
; PRIOR FILING DATE: 2003-03-04  
; PRIOR APPLICATION NUMBER: 60/361,742  
; PRIOR FILING DATE: 2002-03-04  
; NUMBER OF SEQ ID NOS: 1722  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 307  
; LENGTH: 357  
; TYPE: PRT  
; ORGANISM: Methanopyrus kandleri  
US-10-506-454-307

Query Match 64.2%; Score 34; DB 9; Length 357;  
Best Local Similarity 62.5%; Pred. No. 1.5e+02;  
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 EITCYCK 8  
Db 153 ECKCYCK 160

RESULT 49  
US-11-072-512-3033  
; Sequence 3033, Application US/11072512  
; Publication No. US2006002945A1

; GENERAL INFORMATION:

; APPLICANT: ISOGAI, TAKAO  
; APPLICANT: SUGIYAMA, TOMOYASU  
; APPLICANT: OTSUKI, TETSUJI  
; APPLICANT: WAKAMATSU, AI  
; APPLICANT: SATO, HIROYUKI  
; APPLICANT: ISHII, SHIZUKO  
; APPLICANT: YAMAMOTO, JUN-ICHI  
; APPLICANT: ISONO, YUTKO  
; APPLICANT: HIO, YURI  
; APPLICANT: OTSUKA, KAORU  
; APPLICANT: NAGAI, KEIICHI  
; APPLICANT: IRIE, RYOTARO  
; APPLICANT: TAMECHIKA, ICHIRO  
; APPLICANT: SEKI, NAOHICO  
; APPLICANT: YOSHIKAWA, TSUTOMU  
; APPLICANT: OTSUKA, MOTOKYUKI  
; APPLICANT: NAGAHARI, KENJI  
; APPLICANT: MASUHO, YASUHIKO  
; TITLE OF INVENTION: Novel full length cDNA  
; FILE REFERENCE: 084335-0191  
; CURRENT APPLICATION NUMBER: US/11/072,512  
; CURRENT FILING DATE: 2005-03-07  
; PRIOR APPLICATION NUMBER: US 60/350,978  
; PRIOR FILING DATE: 2002-01-25  
; PRIOR APPLICATION NUMBER: JP 2001-379298  
; PRIOR FILING DATE: 2001-11-05  
; NUMBER OF SEQ ID NOS: 4096  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3033  
; LENGTH: 433  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-072-512-3033

Query Match 64.2%; Score 34; DB 11; Length 433;  
Best Local Similarity 71.4%; Pred. No. 1.7e+02;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 3 TCYCKT 9  
Db 397 TCFCKT 403

RESULT 50  
US-10-467-657-4056  
; Sequence 4056, Application US/10467657  
; Publication No. US20050260581A1  
; GENERAL INFORMATION:  
; APPLICANT: CHIRON SPA  
; APPLICANT: FONTANA Maria Rita  
; APPLICANT: PIZZA Mariagrazia  
; APPLICANT: MASIGNANI Vega  
; APPLICANT: MONACI Elisabetta  
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS  
; FILE REFERENCE:  
; CURRENT APPLICATION NUMBER: US/10/467,657  
; CURRENT FILING DATE: 2003-08-11  
; PRIOR APPLICATION NUMBER: GB-0103424.8  
; PRIOR FILING DATE: 2001-02-12  
; NUMBER OF SEQ ID NOS: 9218  
; SOFTWARE: SeqWin99, version 1.04  
; SEQ ID NO 4056  
; LENGTH: 602  
; TYPE: PRT  
; ORGANISM: Neisseria gonorrhoeae  
US-10-467-657-4056

Query Match 64.2%; Score 34; DB 9; Length 602;  
Best Local Similarity 83.3%; Pred. No. 2.2e+02;  
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 4 CYCKT 9

Db 571 CVHCKT 576

Search completed: May 5, 2006, 08:51:39  
Job time : 10.4 secs

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OM protein - protein search, using bw model

Run on: May 5, 2006, 01:38:21 ; Search time 20.8 Seconds  
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35.773 Million cell updates/sec

Title: US-08-170-344-25  
Perfect score: 41  
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Minimum DB seq length: 0  
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Post-processing: Minimum Match 0%  
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Listing first 1000 summaries

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4: /cgn2\_6/ptodata/1/1aa/PCITUS\_COMB.pep: \*  
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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	41	100.0	15	2	US-08-159-339A-1174
2	41	100.0	158	1	US-08-247-904B-10
3	41	100.0	158	2	US-08-767-942A-19
4	41	100.0	271	1	US-08-117-083-14
5	41	100.0	278	2	US-09-485-885-21
6	41	100.0	383	2	US-09-485-885-23
7	35	85.4	270	2	US-09-107-532A-5220
8	33	80.5	77	2	US-09-621-976-5771
9	33	80.5	84	1	US-08-605-163-22
10	33	80.5	500	1	US-07-755-573C-8
11	33	80.5	500	2	US-09-519-878-2
12	33	80.5	504	2	US-09-519-878-4
13	33	80.5	520	2	US-09-949-016-10586
14	31	75.6	386	2	US-09-902-540-11825
15	31	75.6	489	2	US-09-902-540-16694
16	31	75.6	496	2	US-08-881-784-1
17	31	75.6	496	2	US-09-292-768-2
18	31	75.6	496	2	US-09-292-768-64
19	31	75.6	496	2	US-09-292-768-66
20	31	75.6	496	2	US-09-172-339-6
21	31	75.6	575	2	US-09-107-532A-5733
22	31	75.6	1128	2	US-09-328-352-4973
23	30	73.2	166	2	US-09-107-532A-5004
24	30	73.2	180	2	US-09-270-767-58131
25	30	73.2	202	2	US-09-540-236-2012
26	30	73.2	230	2	US-09-248-796A-18704
27	30	73.2	302	2	US-09-710-279-3062

28	30	73.2	315	2	US-09-134-001C-4521	Sequence 4521, Ap
29	30	73.2	468	2	US-09-712-363-268	Sequence 268, Ap
30	30	73.2	493	2	US-09-270-767-42815	Sequence 42815, A
31	30	73.2	519	2	US-09-198-452A-561	Sequence 561, App
32	30	73.2	521	2	US-09-438-185A-523	Sequence 523, App
33	30	73.2	561	2	US-09-233-989-5	Sequence 5, Appl1
34	30	73.2	738	2	US-09-107-532A-5096	Sequence 5096, Ap
35	30	73.2	742	1	US-07-921-807B-2	Sequence 2, Appl1
36	30	73.2	742	1	US-08-441-944A-2	Sequence 3, Appl1
37	30	73.2	1501	1	US-08-447-464-3	Sequence 3, Appl1
38	30	73.2	1501	1	US-08-716-679-3	Sequence 3, Appl1
39	30	73.2	1681	2	US-09-920-653B-3	Sequence 5, Appl1
40	30	73.2	1911	1	US-08-348-006B-5	Sequence 5, Appl1
41	30	73.2	1911	2	US-08-800-825A-5	Sequence 5, Appl1
42	30	73.2	1911	2	US-09-158-657-5	Sequence 5, Appl1
43	30	73.2	1911	4	PCT-US94-10166-5	Sequence 5, Appl1
44	29	70.7	62	2	US-09-513-999C-4219	Sequence 4219, Ap
45	29	70.7	72	2	US-09-513-999C-4220	Sequence 4220, Ap
46	29	70.7	94	2	US-09-902-540-11096	Sequence 11096, A
47	29	70.7	121	2	US-09-248-796A-14182	Sequence 14182, A
48	29	70.7	124	2	US-09-513-999C-4218	Sequence 4218, Ap
49	29	70.7	131	2	US-09-710-279-3086	Sequence 3086, Ap
50	29	70.7	136	2	US-09-513-999C-7844	Sequence 7844, Ap
51	29	70.7	176	2	US-09-540-236-2589	Sequence 2589, Ap
52	29	70.7	234	2	US-10-000-489-20	Sequence 20, Appl1
53	29	70.7	238	6	5405943-2	Patent No. 5405943
54	29	70.7	295	2	US-09-248-796A-24830	Sequence 24830, A
55	29	70.7	303	6	5340334-13	Patent No. 5340334
56	29	70.7	336	2	US-09-583-110-3957	Sequence 3957, Ap
57	29	70.7	337	2	US-09-107-433-2997	Sequence 2997, Ap
58	29	70.7	355	2	US-10-314-048A-18	Sequence 18, Appl1
59	29	70.7	387	2	US-09-107-532A-5932	Sequence 5932, Ap
60	29	70.7	436	6	5405943-4	Patent No. 5405943
61	29	70.7	492	2	US-09-252-991A-22862	Sequence 22862, A
62	29	70.7	534	2	US-09-248-796A-17839	Sequence 17839, A
63	29	70.7	640	2	US-09-786-474-2	Sequence 2, Appl1
64	29	70.7	765	2	US-08-444-818-70	Sequence 70, Appl1
65	29	70.7	999	2	US-09-747-371-2	Sequence 2, Appl1
66	29	70.7	1007	2	US-09-957-005-6	Sequence 9, Appl1
67	29	70.7	85	2	US-09-270-767-99984	Sequence 5984, A
68	28	68.3	88	2	US-09-461-325-325	Sequence 325, App
69	28	68.3	88	2	US-10-012-542-325	Sequence 325, App
70	28	68.3	88	2	US-10-115-123-325	Sequence 325, App
71	28	68.3	138	2	US-09-328-352-7972	Sequence 7972, Ap
72	28	68.3	155	2	US-09-270-767-44537	Sequence 44537, A
73	28	68.3	162	2	US-09-370-838-93	Sequence 93, Appl1
74	28	68.3	283	2	US-09-854-123-93	Sequence 93, Appl1
75	28	68.3	310	2	US-09-270-767-44687	Sequence 44687, A
76	28	68.3	310	2	US-09-071-035-412	Sequence 412, App
77	28	68.3	310	2	US-10-206-576-412	Sequence 367, App
78	28	68.3	336	2	US-09-198-452A-367	Sequence 351, App
79	28	68.3	336	2	US-09-438-185A-351	Sequence 410, App
80	28	68.3	347	2	US-09-071-035-410	Sequence 410, App
81	28	68.3	347	2	US-10-206-576-410	Sequence 410, App
82	28	68.3	348	2	US-09-902-540-14234	Sequence 14234, A
83	28	68.3	349	2	US-09-134-000C-5660	Sequence 5660, Ap
84	28	68.3	468	1	US-08-459-287-2	Sequence 2, Appl1
85	28	68.3	468	1	US-08-459-287-3	Sequence 3, Appl1
86	28	68.3	468	2	US-08-764-870-8	Sequence 8, Appl1
87	28	68.3	468	2	US-08-980-815-8	Sequence 8, Appl1
88	28	68.3	468	2	US-09-662-386-2	Sequence 2, Appl1
89	28	68.3	468	2	US-09-166-265-3	Sequence 3, Appl1
90	28	68.3	468	2	US-10-322-668-12	Sequence 12, Appl1
91	28	68.3	469	2	US-09-949-016-10936	Sequence 10936, A
92	28	68.3	480	1	US-07-803-636A-2	Sequence 12238, A
93	28	68.3	509	2	US-09-489-039A-12238	Sequence 12238, A
94	28	68.3	516	2	US-09-949-016-9662	Sequence 9462, A
95	28	68.3	571	2	US-09-248-796A-15473	Sequence 15473, A
96	28	68.3	578	2	US-09-248-796A-16194	Sequence 16194, A
97	28	68.3	600	1	US-08-821-119-12	Sequence 19, Appl1
98	28	68.3	702	2	US-08-821-118-2	Sequence 2, Appl1
99	28	68.3	732	2	US-09-949-016-7702	Sequence 7302, Ap
100	28	68.3	732	2	US-10-160-748-6	Sequence 6, Appl1

101	28	68.3	796	2	US-10-104-047-2293	Sequence 2293, Ap	174	27	65.9	714	2	US-09-949-016-7038	Sequence 7038, Ap
102	28	68.3	876	2	US-09-328-352-5197	Sequence 5197, Ap	175	27	65.9	815	2	US-09-489-039A-11317	Sequence 11317, A
103	28	68.3	976	2	US-09-104-324B-4	Sequence 4, Appl1	176	27	65.9	1138	2	US-09-590-101A-8	Sequence 8, Appl1
104	28	68.3	976	2	US-09-538-082-1339	Sequence 1339, Ap	177	27	65.9	1131	2	US-09-590-101A-10	Sequence 10, Appl1
105	28	68.3	1184	1	US-08-446-0388-20	Sequence 20, Appl1	178	27	65.9	1447	2	US-09-302-540-16727	Sequence 16727, A
106	28	68.3	1184	1	US-08-446-0108-20	Sequence 20, Appl1	179	27	65.9	1457	2	US-09-436-874-2	Sequence 2, Appl1
107	28	68.3	1184	1	US-08-805-445-50	Sequence 50, Appl1	180	27	65.9	1457	2	US-09-713-273A-18	Sequence 18, Appl1
108	28	68.3	1184	1	US-08-064-067D-20	Sequence 20, Appl1	181	27	65.9	1657	1	US-08-387-959-1	Sequence 1, Appl1
109	28	68.3	1184	1	US-09-066-208-50	Sequence 20, Appl1	182	27	65.9	1657	2	US-09-949-016-6472	Sequence 6472, Ap
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113	28	68.3	1187	2	US-08-665-574C-13	Sequence 13, Appl1	186	27	65.9	4928	2	US-09-036-987A-5	Sequence 5, Appl1
114	28	68.3	1187	2	US-08-946-994-13	Sequence 13, Appl1	187	27	65.9	4928	2	US-09-370-700-5	Sequence 5, Appl1
115	28	68.3	1187	2	US-09-972-800A-18	Sequence 18, Appl1	188	27	65.9	4928	2	US-09-603-207-5	Sequence 5, Appl1
116	28	68.3	1187	4	PCT-US95-16435-8	Sequence 8, Appl1	189	27	65.9	15	2	US-09-187-789-66	Sequence 66, Appl1
117	28	68.3	1187	2	US-09-540-236-3165	Sequence 3165, Ap	190	27	65.9	15	2	US-09-139-600-61	Sequence 61, Appl1
118	28	68.3	1190	2	US-09-328-352-8132	Sequence 8132, Ap	191	27	65.9	15	2	US-09-989-903-66	Sequence 66, Appl1
119	28	68.3	2182	1	US-08-487-826B-16	Sequence 16, Appl1	192	27	65.9	33	2	US-09-324-455-18	Sequence 18, Appl1
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126	27	65.9	94	2	US-09-489-039A-13593	Sequence 13593, A	199	27	65.9	115	2	US-09-640-211A-757	Sequence 757, Appl1
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128	27	65.9	147	2	US-09-270-767-35844	Sequence 35844, A	201	27	65.9	120	2	US-09-328-352-6848	Sequence 6848, Ap
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132	27	65.9	171	2	US-09-270-767-51698	Sequence 51698, A	205	27	65.9	137	2	US-09-582-337-24	Sequence 24, Appl1
133	27	65.9	174	2	US-09-732-210-1230	Sequence 1230, Ap	206	27	65.9	141	2	US-09-543-681A-5683	Sequence 5683, Ap
134	27	65.9	189	2	US-09-477-135A-137	Sequence 137, App	207	27	65.9	150	2	US-09-543-681A-5114	Sequence 5114, Ap
135	27	65.9	202	2	US-09-252-991A-19028	Sequence 19028, A	208	27	65.9	151	2	US-09-605-703B-1748	Sequence 1748, Ap
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137	27	65.9	214	2	US-09-543-681A-4863	Sequence 4863, Ap	210	27	65.9	156	2	US-09-107-532A-6611	Sequence 6611, Ap
138	27	65.9	257	2	US-09-764-803B-2	Sequence 2, Appl1	211	27	65.9	156	2	US-09-489-039A-13303	Sequence 13303, A
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140	27	65.9	260	2	US-09-139-600-2	Sequence 2, Appl1	213	27	65.9	169	2	US-09-732-210-1228	Sequence 1228, Ap
141	27	65.9	260	2	US-09-989-903-2	Sequence 2, Appl1	214	27	65.9	173	2	US-09-732-210-1615	Sequence 1615, Ap
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143	27	65.9	327	2	US-09-107-532A-4796	Sequence 4796, Ap	216	27	65.9	179	2	US-09-270-767-54608	Sequence 54608, A
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145	27	65.9	352	2	US-09-248-796A-18154	Sequence 18154, A	218	27	65.9	180	2	US-09-732-210-1614	Sequence 1614, Ap
146	27	65.9	360	2	US-09-107-532A-3769	Sequence 3769, Ap	219	27	65.9	183	2	US-09-107-532A-5644	Sequence 5644, Ap
147	27	65.9	361	2	US-09-248-796A-19219	Sequence 19219, A	220	27	65.9	199	2	US-09-270-767-42804	Sequence 42804, A
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149	27	65.9	375	2	US-09-787-084-2	Sequence 2, Appl1	222	27	65.9	200	2	US-09-656-450-8	Sequence 8, Appl1
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151	27	65.9	405	2	US-09-252-991A-24036	Sequence 24036, A	224	27	65.9	220	1	US-09-431-184A-7	Sequence 7, Appl1
152	27	65.9	428	2	US-09-134-001C-2885	Sequence 2885, Ap	225	27	65.9	220	1	US-09-624-670-19	Sequence 19, Appl1
153	27	65.9	435	2	US-09-248-796A-15742	Sequence 15742, A	226	27	65.9	221	2	US-09-134-000C-5016	Sequence 5016, Ap
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158	27	65.9	440	2	US-10-329-668-14	Sequence 14, Appl1	231	27	65.9	238	2	US-09-903-456-20	Sequence 20, Appl1
159	27	65.9	441	2	US-08-764-870-9	Sequence 9, Appl1	232	27	65.9	238	2	US-09-624-670-19	Sequence 19, Appl1
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163	27	65.9	443	2	US-09-457-046B-50	Sequence 50, Appl1	236	27	65.9	249	2	US-09-902-540-11148	Sequence 11148, A
164	27	65.9	443	2	US-09-866-570B-50	Sequence 50, Appl1	237	27	65.9	257	2	US-09-270-767-42589	Sequence 42589, A
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170	27	65.9	592	2	US-09-552-991A-27654	Sequence 27654, A	243	27	65.9	270	2	US-09-809-920-12	Sequence 12, Appl1
171	27	65.9	607	2	US-09-352-991A-21640	Sequence 21640, A	244	27	65.9	273	2	US-08-235-836C-98	Sequence 98, Appl1
172	27	65.9	678	2	US-09-595-684B-25	Sequence 25, Appl1	245	27	65.9	273	2	US-08-235-836C-101	Sequence 101, App
173	27	65.9	706	2	US-09-949-016-11444	Sequence 11444, A	246	27	65.9	274	1	US-08-137-175A-8	Sequence 8, Appl1

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248	26	63.4	274	2	US-08-193-159-2	Sequence 2, Appli	321	26	63.4	432	2	US-09-999-833A-90	Sequence 90, Appl
249	26	63.4	274	2	US-08-479-017-8	Sequence 8, Appli	322	26	63.4	432	2	US-10-020-445A-90	Sequence 90, Appl
250	26	63.4	274	2	US-08-235-886C-9	Sequence 9, Appli	323	26	63.4	433	2	US-09-809-665A-161	Sequence 161, App
251	26	63.4	274	2	US-08-235-886C-86	Sequence 86, Appli	324	26	63.4	435	1	US-08-531-439B-4	Sequence 4, Appli
252	26	63.4	274	2	US-08-235-836C-138	Sequence 138, App	325	26	63.4	444	1	US-08-559-260-2	Sequence 2, Appli
253	26	63.4	274	2	US-09-283-646C-2	Sequence 2, Appli	326	26	63.4	447	2	US-08-836-687B-39	Sequence 39, Appli
254	26	63.4	289	2	US-09-071-035-400	Sequence 400, App	327	26	63.4	468	2	US-09-538-092-1362	Sequence 1362, Ap
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256	26	63.4	293	2	US-09-248-796A-15940	Sequence 15940, A	329	26	63.4	471	2	US-09-051-961-7	Sequence 7, Appli
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258	26	63.4	296	2	US-10-206-576-152	Sequence 152, App	331	26	63.4	471	2	US-09-538-092-938	Sequence 938, App
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263	26	63.4	304	2	US-09-248-796A-16060	Sequence 16060, A	336	26	63.4	481	2	US-09-845-211-4	Sequence 11625, A
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266	26	63.4	316	2	US-09-326-402C-5	Sequence 5, Appli	339	26	63.4	493	2	US-09-054-272-14	Sequence 14, Appli
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271	26	63.4	317	2	US-09-489-039A-8503	Sequence 8503, Ap	344	26	63.4	520	2	US-09-670-216-30	Sequence 30, Appli
272	26	63.4	317	2	US-08-875-553D-10	Sequence 30, Appli	345	26	63.4	520	2	US-09-538-092-1361	Sequence 1361, Ap
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276	26	63.4	321	2	US-10-206-576-398	Sequence 398, App	349	26	63.4	530	2	US-08-486-049-3	Sequence 3, Appli
277	26	63.4	323	2	US-09-540-236-2638	Sequence 2638, Ap	350	26	63.4	530	2	US-10-314-739A-3	Sequence 3, Appli
278	26	63.4	324	2	US-09-489-847-203	Sequence 203, App	351	26	63.4	535	2	US-09-326-480A-3	Sequence 6, Appli
279	26	63.4	325	2	US-09-071-035-150	Sequence 150, App	352	26	63.4	538	2	US-09-603-208A-6	Sequence 6, Appli
280	26	63.4	325	2	US-09-489-039A-12379	Sequence 12379, A	353	26	63.4	543	2	US-09-248-796A-17070	Sequence 17070, A
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284	26	63.4	332	2	US-09-134-000C-5661	Sequence 5661, A	357	26	63.4	566	1	US-08-726-883-2	Sequence 2, Appli
285	26	63.4	333	2	US-09-949-016-10521	Sequence 10521, A	358	26	63.4	566	1	US-09-107-433-336	Sequence 336, Ap
286	26	63.4	335	2	US-09-002-298-7	Sequence 7, Appli	359	26	63.4	575	2	US-09-543-661A-6584	Sequence 6584, Ap
287	26	63.4	335	2	US-09-481-277-7	Sequence 20, Appli	360	26	63.4	594	2	US-09-949-016-9261	Sequence 9261, Ap
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294	26	63.4	339	1	US-08-193-159-6	Sequence 18, Appli	367	26	63.4	749	2	US-10-104-047-2554	Sequence 2554, Ap
295	26	63.4	339	2	US-09-345-294-18	Sequence 6, Appli	368	26	63.4	794	2	US-09-134-000C-5518	Sequence 5518, Ap
296	26	63.4	339	2	US-09-489-847-203	Sequence 6, Appli	369	26	63.4	806	2	US-08-985-526-34	Sequence 34, Appli
297	26	63.4	348	2	US-09-113-536-2	Sequence 2, Appli	370	26	63.4	806	2	US-08-443-861-5	Sequence 5, Appli
298	26	63.4	348	2	US-09-624-183-2	Sequence 2, Appli	371	26	63.4	806	2	US-08-193-163-829B-5	Sequence 5, Appli
299	26	63.4	348	4	PCT-US95-05785-2	Sequence 25, Appli	372	26	63.4	806	2	US-09-766-678-5	Sequence 5, Appli
300	26	63.4	350	2	US-08-637-670-25	Sequence 6, Appli	373	26	63.4	809	2	US-09-660-552-5	Sequence 5, Appli
301	26	63.4	350	2	US-09-326-402C-6	Sequence 16, Appli	374	26	63.4	876	2	US-09-252-991A-20891	Sequence 20891, A
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305	26	63.4	360	2	US-09-107-532A-7059	Sequence 361, App	378	26	63.4	946	2	US-09-418-540-4	Sequence 4, Appli
306	26	63.4	363	2	US-09-489-847-361	Sequence 7027, Ap	379	26	63.4	965	2	US-08-506-340A-1	Sequence 2337, Ap
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308	26	63.4	365	2	US-09-328-352-6811	Sequence 7, Appli	381	26	63.4	965	2	US-08-506-340A-1	Sequence 2337, Ap
309	26	63.4	368	2	US-09-326-402C-7	Sequence 5369, Ap	382	26	63.4	980	1	US-09-538-092-1332	Sequence 6, Appli
310	26	63.4	373	2	US-09-134-000C-5369	Sequence 307, App	383	26	63.4	981	2	US-08-473-553A-2	Sequence 9, Appli
311	26	63.4	376	2	US-09-538-092-307	Sequence 307, App	384	26	63.4	985	1	US-08-473-553A-2	Sequence 9, Appli
312	26	63.4	384	1	US-08-220-958-2	Sequence 436, App	385	26	63.4	985	1	US-09-817-762-9	Sequence 5, Appli
313	26	63.4	396	2	US-09-854-133-436	Sequence 5202, Ap	386	26	63.4	1055	2	US-09-256-490-5	Sequence 5, Appli
314	26	63.4	400	2	US-09-328-352-5202	Sequence 12498, A	387	26	63.4	1055	2	PCT-US96-11445-5	Sequence 288, App
315	26	63.4	410	2	US-09-489-039A-12498	Sequence 8, Appli	388	26	63.4	1098	2	US-09-712-363-288	Sequence 5256, Ap
316	26	63.4	413	2	US-09-603-208A-8	Sequence 3, Appli	389	26	63.4	1114	2	US-09-107-532A-5256	Sequence 3, Appli
317	26	63.4	422	2	US-09-660-552-3	Sequence 3, Appli	390	26	63.4	1184	1	US-08-918-914-1	Sequence 3, Appli
318	26	63.4	422	2	US-09-603-448-3	Sequence 19, Appli	391	26	63.4	1184	2	US-08-996-083-3	Sequence 3, Appli
319	26	63.4	422	2	US-09-603-448-3	Sequence 19, Appli	392	26	63.4	1184	2	US-08-996-083-3	Sequence 3, Appli

393	26	63.4	1184	2	US-09-991-181-124	Sequence 124, App	466	25	61.0	121	2	US-09-489-039A-7942	Sequence 7942, Ap
394	26	63.4	1184	2	US-09-990-444-124	Sequence 124, App	467	25	61.0	125	2	US-09-621-976-3970	Sequence 3970, Ap
395	26	63.4	1184	2	US-09-997-333-124	Sequence 124, App	468	25	61.0	125	2	US-09-270-767-3463	Sequence 3463, A
396	26	63.4	1184	2	US-09-992-598-124	Sequence 124, App	469	25	61.0	125	2	US-09-270-767-49850	Sequence 49850, A
397	26	63.4	1367	2	US-09-134-001C-4955	Sequence 4955, Ap	470	25	61.0	125	2	US-08-945-038-2	Sequence 2, Appli
398	26	63.4	1367	1	US-07-813-593-4	Sequence 4, Appli	471	25	61.0	125	2	US-09-544-683-1	Sequence 1, Appli
399	26	63.4	1367	1	US-07-977-451-6	Sequence 6, Appli	472	25	61.0	125	2	US-10-192-419-1	Sequence 1, Appli
400	26	63.4	1367	1	US-07-946-507-4	Sequence 4, Appli	473	25	61.0	131	2	US-09-367-309A-2	Sequence 2, Appli
401	26	63.4	1367	1	US-08-252-517-6	Sequence 6, Appli	474	25	61.0	131	2	US-10-000-489-64	Sequence 64, Appli
402	26	63.4	1367	1	US-07-906-397A-6	Sequence 6, Appli	475	25	61.0	132	1	US-08-470-2988-12	Sequence 12, Appli
403	26	63.4	1367	1	US-08-601-891-6	Sequence 2, Appli	476	25	61.0	132	1	US-09-270-767-33372	Sequence 33372, A
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407	26	63.4	1367	2	US-09-872-136B-6	Sequence 6, Appli	480	25	61.0	137	2	US-09-270-767-56481	Sequence 56481, A
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409	26	63.4	1367	2	US-09-919-408A-6	Sequence 6, Appli	482	25	61.0	140	2	US-09-605-703B-2214	Sequence 2214, Ap
410	26	63.4	1367	4	PCT-US92-02750-8	Sequence 8, Appli	483	25	61.0	144	2	US-09-540-336-2312	Sequence 2312, Ap
411	26	63.4	1367	4	PCT-US92-05401-6	Sequence 6, Appli	484	25	61.0	144	2	US-09-270-767-32984	Sequence 32984, A
412	26	63.4	1367	4	PCT-US92-09893-6	Sequence 6, Appli	485	25	61.0	149	2	US-09-230-196-9	Sequence 9, Appli
413	26	63.4	1433	2	US-09-716-964B-184	Sequence 184, App	486	25	61.0	149	2	US-09-502-540-16304	Sequence 16304, A
414	26	63.4	1442	2	US-09-710-279-2052	Sequence 2052, App	487	25	61.0	150	2	US-10-290-143-4	Sequence 4, Appli
415	26	63.4	1589	2	US-08-755-587-189	Sequence 189, App	488	25	61.0	154	2	US-09-328-352-5245	Sequence 5245, Ap
416	26	63.4	1725	2	US-09-562-702A-20	Sequence 20, Appli	489	25	61.0	154	2	US-09-270-767-35773	Sequence 35773, A
417	26	63.4	1725	2	US-09-561-818A-18	Sequence 18, Appli	490	25	61.0	154	2	US-09-270-767-50990	Sequence 50990, A
418	26	63.4	1725	2	US-09-561-818A-20	Sequence 20, Appli	491	25	61.0	157	1	US-08-328-322-15	Sequence 15, Appli
419	26	63.4	1725	2	US-10-037-182-12	Sequence 12, Appli	492	25	61.0	157	1	US-09-853-832-15	Sequence 15, Appli
420	26	63.4	1786	2	US-09-562-702A-18	Sequence 18, Appli	493	25	61.0	157	2	US-09-453-976-15	Sequence 15, Appli
421	26	63.4	1786	2	US-09-561-818A-18	Sequence 18, Appli	494	25	61.0	157	2	US-10-300-818-15	Sequence 15, Appli
422	26	63.4	1786	2	US-10-037-182-10	Sequence 10, Appli	495	25	61.0	157	2	US-09-961-453-15	Sequence 15, Appli
423	26	63.4	1833	2	US-08-621-944A-4	Sequence 4, Appli	496	25	61.0	157	2	US-09-961-507-15	Sequence 15, Appli
424	26	63.4	1833	2	US-08-945-567D-4	Sequence 4, Appli	497	25	61.0	157	2	US-09-961-458-15	Sequence 15, Appli
425	26	63.4	1990	2	US-09-902-540-11251	Sequence 11251, A	498	25	61.0	157	2	US-09-961-452A-15	Sequence 15, Appli
426	26	63.4	1992	2	US-08-621-944A-3	Sequence 3, Appli	499	25	61.0	158	2	US-09-134-000C-6596	Sequence 6596, Ap
427	26	63.4	1992	2	US-08-945-567D-3	Sequence 3, Appli	500	25	61.0	161	2	US-09-230-196-8	Sequence 8, Appli
428	26	63.4	2004	2	US-09-538-092-1371	Sequence 1371, App	501	25	61.0	162	2	US-09-800-170-6	Sequence 6, Appli
429	26	63.4	2004	2	US-09-949-016-6756	Sequence 6756, App	502	25	61.0	163	2	US-09-902-540-15690	Sequence 15690, A
430	26	63.4	2048	2	US-09-268-347-48	Sequence 48, Appli	503	25	61.0	166	2	US-09-134-001C-5373	Sequence 5373, Ap
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432	26	63.4	2154	2	US-09-431-184A-4	Sequence 4, Appli	505	25	61.0	172	2	US-09-270-767-42521	Sequence 42521, A
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434	26	63.4	3433	2	US-09-091-501B-10	Sequence 10, Appli	507	25	61.0	177	2	US-08-764-563-3	Sequence 3, Appli
435	26	63.4	3433	2	US-09-538-092-1136	Sequence 1136, Ap	508	25	61.0	177	2	US-09-543-681A-5736	Sequence 5736, Ap
436	26	63.4	4968	2	US-09-424-783-5	Sequence 5, Appli	509	25	61.0	182	2	US-09-107-532A-6454	Sequence 6454, Ap
437	25	61.0	13	2	US-09-759-143-926	Sequence 926, App	510	25	61.0	188	2	US-09-230-196-7	Sequence 7, Appli
438	25	61.0	13	2	US-10-012-896-926	Sequence 926, App	511	25	61.0	191	2	US-09-134-000C-5189	Sequence 5189, Ap
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440	25	61.0	70	2	US-09-583-110-2841	Sequence 2841, Ap	513	25	61.0	194	2	US-09-252-991A-25610	Sequence 25610, A
441	25	61.0	70	2	US-09-107-433-2954	Sequence 2954, Ap	514	25	61.0	195	2	US-08-529-055-71	Sequence 71, Appli
442	25	61.0	71	2	US-09-621-976-6634	Sequence 6634, Ap	515	25	61.0	195	2	US-09-902-540-13776	Sequence 13776, A
443	25	61.0	72	2	US-09-583-110-4899	Sequence 4899, Ap	516	25	61.0	197	2	US-10-000-489-66	Sequence 66, Appli
444	25	61.0	72	2	US-09-107-433-2938	Sequence 2938, Ap	517	25	61.0	197	2	US-09-107-779-2	Sequence 2, Appli
445	25	61.0	74	2	US-09-621-976-4915	Sequence 4915, Ap	518	25	61.0	198	2	US-09-134-000C-5033	Sequence 5033, Ap
446	25	61.0	81	2	US-09-270-767-39355	Sequence 39355, A	519	25	61.0	199	2	US-09-107-779-24	Sequence 24, Appli
447	25	61.0	81	2	US-09-270-767-54572	Sequence 54572, A	520	25	61.0	201	2	US-09-716-964B-90	Sequence 90, Appli
448	25	61.0	86	2	US-09-563-997A-47	Sequence 47, Appli	521	25	61.0	202	2	US-09-134-000C-3660	Sequence 3660, Ap
449	25	61.0	89	2	US-08-793-273C-5	Sequence 5, Appli	522	25	61.0	209	2	US-09-583-110-2830	Sequence 2830, Ap
450	25	61.0	89	4	PCT-US95-11684-5	Sequence 5, Appli	523	25	61.0	211	2	US-09-107-433-2782	Sequence 2782, Ap
451	25	61.0	90	2	US-09-188-930-134	Sequence 134, App	524	25	61.0	220	2	US-09-270-767-37754	Sequence 37754, A
452	25	61.0	90	2	US-09-312-283C-134	Sequence 134, App	525	25	61.0	220	2	US-09-270-767-52971	Sequence 52971, A
453	25	61.0	90	2	US-09-621-976-4355	Sequence 4355, App	526	25	61.0	222	1	US-08-129-610-8	Sequence 8, Appli
454	25	61.0	99	1	US-08-710-125-21	Sequence 12, Appli	527	25	61.0	222	1	US-08-455-313-8	Sequence 8, Appli
455	25	61.0	99	1	US-09-047-125-21	Sequence 21, Appli	528	25	61.0	222	1	US-08-475-924-3	Sequence 3, Appli
456	25	61.0	99	2	US-07-736-335B-21	Sequence 13, Appli	529	25	61.0	222	1	US-08-657-579A-3	Sequence 3, Appli
457	25	61.0	99	2	US-09-147-875A-17	Sequence 17, App	530	25	61.0	222	1	US-09-224-025-8	Sequence 8, Appli
458	25	61.0	99	2	US-09-583-110-4742	Sequence 704, App	531	25	61.0	222	2	US-08-311-731A-160	Sequence 160, App
459	25	61.0	104	2	US-09-732-210-704	Sequence 4799, App	532	25	61.0	222	4	PCT-US94-07887-8	Sequence 8, Appli
460	25	61.0	110	2	US-09-107-433-4799	Sequence 8138, App	533	25	61.0	222	4	US-09-902-540-10947	Sequence 10947, A
461	25	61.0	113	2	US-09-513-999C-8138	Sequence 6466, Ap	534	25	61.0	223	2	US-09-270-767-45995	Sequence 45995, A
462	25	61.0	115	2	US-09-107-532A-6466	Sequence 1360, Ap	535	25	61.0	234	2	US-09-543-681A-7389	Sequence 7389, Ap
463	25	61.0	118	2	US-09-732-210-1360	Sequence 6878, Ap	537	25	61.0	235	2	US-09-902-540-11067	Sequence 11067, A
464	25	61.0	120	2	US-09-107-532A-6878	Sequence 2947, Ap	538	25	61.0	236	2		
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540	25	61.0	243	2	US-09-248-796A-23192	Sequence 23192, A	613	25	61.0	367	2	US-10-094-944-21	Sequence 21, Appl
541	25	61.0	246	2	US-09-452-239-20	Sequence 20, Appl	614	25	61.0	368	2	US-09-248-796A-19000	Sequence 19000, A
542	25	61.0	246	2	US-09-452-239-22	Sequence 22, Appl	615	25	61.0	368	2	US-10-081-644-8	Sequence 8, Appl
543	25	61.0	247	2	US-09-543-681A-5194	Sequence 5194, Ap	616	25	61.0	368	4	PCT-US93-11703-24	Sequence 24, Appl
544	25	61.0	248	2	US-09-523-263B-15	Sequence 15, Appl	617	25	61.0	369	1	US-08-139-609-1	Sequence 1, Appl
545	25	61.0	248	2	US-10-012-143-2	Sequence 2, Appl	618	25	61.0	375	1	US-08-121-714-2	Sequence 2, Appl
546	25	61.0	248	2	US-10-012-143-5	Sequence 5, Appl	619	25	61.0	375	1	US-08-477-108A-2	Sequence 2, Appl
547	25	61.0	248	2	US-10-299-867-15	Sequence 15, Appl	620	25	61.0	375	1	US-08-477-112-2	Sequence 2, Appl
548	25	61.0	249	1	US-08-685-992-28	Sequence 28, Appl	621	25	61.0	375	2	US-09-328-352-8119	Sequence 8119, Ap
549	25	61.0	249	1	US-09-144-925-28	Sequence 28, Appl	622	25	61.0	375	2	US-09-886-319A-4	Sequence 4, Appl
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551	25	61.0	254	2	US-09-586-106D-141	Sequence 141, App	624	25	61.0	377	1	US-08-839-581A-31	Sequence 31, Appl
552	25	61.0	254	2	US-09-586-106D-149	Sequence 149, App	625	25	61.0	377	2	US-09-023-591A-31	Sequence 62, Appl
553	25	61.0	254	2	US-10-799-870-141	Sequence 141, App	626	25	61.0	378	2	US-09-689-486-12	Sequence 4818, A
554	25	61.0	254	2	US-10-799-870-149	Sequence 149, App	627	25	61.0	380	2	US-09-270-767-44518	Sequence 44518, A
555	25	61.0	256	2	US-09-270-767-45809	Sequence 45809, A	628	25	61.0	383	6	5470718-5	Patent No. 5470718
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557	25	61.0	265	1	US-08-129-610-7	Sequence 7, Appl	630	25	61.0	386	2	US-09-328-352-7679	Sequence 7679, Ap
558	25	61.0	265	1	US-08-129-609A-7	Sequence 7, Appl	631	25	61.0	386	1	US-08-499-568-11	Sequence 11, Appl
559	25	61.0	265	1	US-08-455-313-7	Sequence 7, Appl	632	25	61.0	388	1	US-08-793-958-11	Sequence 11, Appl
560	25	61.0	265	1	US-08-475-924-2	Sequence 2, Appl	633	25	61.0	388	1	US-09-793-958-11	Sequence 6381, Ap
561	25	61.0	265	1	US-08-657-579A-2	Sequence 2, Appl	634	25	61.0	390	2	US-09-107-532A-6381	Sequence 4913, Ap
562	25	61.0	265	1	US-09-224-025-7	Sequence 7, Appl	635	25	61.0	391	2	US-09-328-352-4913	Sequence 18221, A
563	25	61.0	265	4	PCT-US94-07887-7	Sequence 7, Appl	636	25	61.0	393	1	US-08-220-151-23	Sequence 23, Appl
564	25	61.0	265	4	US-09-706-541-7	Sequence 7, Appl	637	25	61.0	393	1	US-08-499-568-15	Sequence 15, Appl
565	25	61.0	276	2	US-09-949-002-375	Sequence 375, App	638	25	61.0	393	1	US-08-413-118-23	Sequence 23, Appl
566	25	61.0	276	2	US-09-328-352-5738	Sequence 5738, Ap	639	25	61.0	393	1	US-08-793-958-15	Sequence 15, Appl
567	25	61.0	285	2	US-09-141-821-2	Sequence 2, Appl	640	25	61.0	393	1	US-08-956-998-2	Sequence 2, Appl
568	25	61.0	285	2	US-09-248-796A-17901	Sequence 17901, A	641	25	61.0	393	2	US-08-473-446-23	Sequence 23, Appl
569	25	61.0	287	2	US-09-583-110-4959	Sequence 4959, Ap	642	25	61.0	393	6	5182195-10	Patent No. 5182195
570	25	61.0	287	2	US-09-583-110-4966	Sequence 4966, Ap	643	25	61.0	394	1	US-08-357-264-3	Sequence 3, Appl
571	25	61.0	287	2	US-09-583-110-4979	Sequence 4979, Ap	644	25	61.0	394	1	US-08-499-568-4	Sequence 4, Appl
572	25	61.0	298	2	US-09-949-016-8191	Sequence 8191, Ap	645	25	61.0	394	1	US-08-672-514-3	Sequence 4, Appl
573	25	61.0	304	2	US-09-710-279-650	Sequence 650, App	646	25	61.0	394	1	US-08-793-958-4	Sequence 14134, A
574	25	61.0	304	2	US-09-710-279-1716	Sequence 1716, Ap	647	25	61.0	395	2	US-09-248-796A-14134	Sequence 16, Appl
575	25	61.0	305	2	US-09-248-796A-15651	Sequence 15651, A	648	25	61.0	396	2	US-08-878-989-16	Sequence 2, Appl
576	25	61.0	307	2	US-09-107-433-4181	Sequence 4181, Ap	649	25	61.0	396	2	US-09-344-700-2	Sequence 2, Appl
577	25	61.0	307	2	US-09-107-433-4337	Sequence 4337, Ap	650	25	61.0	396	2	US-09-563-997A-2	Sequence 7964, Ap
578	25	61.0	308	1	US-08-499-568-2	Sequence 2, Appl	651	25	61.0	396	2	US-09-949-016-7964	Sequence 302, App
579	25	61.0	308	1	US-08-793-958-2	Sequence 2, Appl	652	25	61.0	398	2	US-09-188-930-102	Sequence 13, Appl
580	25	61.0	308	2	US-09-107-532A-5653	Sequence 5653, Ap	653	25	61.0	411	2	US-09-312-283C-302	Sequence 114, App
581	25	61.0	308	2	US-09-949-016-11023	Sequence 11023, A	654	25	61.0	411	2	US-09-430-221-13	Sequence 4405, Ap
582	25	61.0	309	2	US-09-134-000C-6506	Sequence 6506, Ap	655	25	61.0	412	2	US-09-724-623-114	Sequence 257, App
583	25	61.0	309	2	US-09-248-796A-22368	Sequence 22368, A	656	25	61.0	412	2	US-09-543-681A-4405	Sequence 258, App
584	25	61.0	309	2	US-09-538-092-405	Sequence 405, App	657	25	61.0	424	2	US-09-771-161A-258	Sequence 259, App
585	25	61.0	311	2	US-09-134-001C-3846	Sequence 3846, Ap	658	25	61.0	424	2	US-09-771-161A-259	Sequence 3, Appl
586	25	61.0	313	2	US-09-583-110-3611	Sequence 3611, Ap	659	25	61.0	424	2	US-09-608-285A-3	Sequence 5, Appl
587	25	61.0	313	2	US-09-583-110-3611	Sequence 9934, Ap	660	25	61.0	424	2	US-09-608-285A-5	Sequence 7, Appl
588	25	61.0	313	2	US-09-902-540-9934	Sequence 73, Appl	661	25	61.0	428	2	US-09-608-285A-7	Sequence 9, Appl
589	25	61.0	313	2	US-09-769-787-73	Sequence 5739, Ap	662	25	61.0	428	2	US-09-608-285A-9	Sequence 6, Appl
590	25	61.0	315	2	US-09-543-681A-5739	Sequence 5739, Ap	663	25	61.0	428	2	US-09-240-639-6	Sequence 3, Appl
591	25	61.0	316	2	US-09-252-991A-19140	Sequence 19140, A	664	25	61.0	428	2	US-09-240-639-9	Sequence 5, Appl
592	25	61.0	317	2	US-09-462-846-5	Sequence 5, Appl	665	25	61.0	428	2	US-09-350-836B-3	Sequence 3, Appl
593	25	61.0	317	2	US-09-680-728-2	Sequence 2, Appl	666	25	61.0	428	2	US-09-350-836B-5	Sequence 7, Appl
594	25	61.0	318	2	US-09-759-143-920	Sequence 920, App	667	25	61.0	428	2	US-09-350-836B-7	Sequence 3, Appl
595	25	61.0	318	2	US-10-012-896-920	Sequence 920, App	668	25	61.0	428	2	US-09-370-265-3	Sequence 5, Appl
596	25	61.0	319	2	US-09-107-532A-4723	Sequence 4723, Ap	669	25	61.0	428	2	US-09-370-265-5	Sequence 7, Appl
597	25	61.0	321	2	US-09-413-231-8	Sequence 8, Appl	670	25	61.0	428	2	US-09-370-265-7	Sequence 3, Appl
598	25	61.0	321	2	US-09-413-231-8	Sequence 21835, A	671	25	61.0	428	2	US-09-557-800C-3	Sequence 5, Appl
599	25	61.0	332	2	US-09-498-520A-10	Sequence 10, Appl	672	25	61.0	428	2	US-09-557-800C-5	Sequence 7, Appl
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603	25	61.0	333	2	US-09-527-522-1	Sequence 1, Appl	676	25	61.0	428	2	US-09-370-625A-9	Sequence 3, Appl
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605	25	61.0	342	2	US-09-107-532A-7272	Sequence 98, Appl	678	25	61.0	428	2	US-09-908-510A-9	Sequence 6, Appl
606	25	61.0	344	2	US-09-818-780-98	Sequence 3690, Ap	679	25	61.0	428	2	US-09-908-510A-9	Sequence 6, Appl
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686	25	61.0	428	2	US-09-905-732B-6	Sequence 6, Appli	759	25	61.0	551	2	US-08-796-899-29	Sequence 29, Appli
687	25	61.0	428	2	US-09-905-732B-9	Sequence 9, Appli	760	25	61.0	555	2	US-08-687-590-24	Sequence 24, Appli
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726	25	61.0	465	2	US-09-908-510A-8	Sequence 8, Appli	799	25	61.0	704	2	US-08-671-757A-11	Sequence 11, Appli
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747	25	61.0	494	2	US-09-058-376-3	Sequence 3, Appli	820	25	61.0	1122	2	US-09-949-002-355	Sequence 355, App
748	25	61.0	513	2	US-08-369-822C-28	Sequence 28, Appli	821	25	61.0	1157	2	US-09-949-002-511	Sequence 511, App
749	25	61.0	513	2	US-08-582-776C-43	Sequence 43, Appli	822	25	61.0	1174	2	US-09-949-002-511	Sequence 511, App
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			533	4	PCT-US93-02172-10	Sequence 10, Appli				1432	2	US-09-949-001-16	Sequence 16, Appli



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840	25	61.0	1651	2	US-10-289-776-18	Sequence 18, Appl	913	24	58.5	109	2	US-08-469-617-26	Sequence 26, Appl
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842	25	61.0	1826	2	US-09-198-452A-113	Sequence 113, App	915	24	58.5	109	2	US-08-252-778-26	Sequence 26, Appl
843	25	61.0	1837	2	US-09-438-185A-98	Sequence 485, App	916	24	58.5	110	2	US-09-462-917A-38	Sequence 38, Appl
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846	25	61.0	1956	2	US-09-527-013-2	Sequence 2, Appl	919	24	58.5	115	2	US-09-713-273A-8	Sequence 8, Appl
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848	25	61.0	1957	2	US-08-669-656A-8	Sequence 8301, Ap	921	24	58.5	116	2	US-09-462-917A-22	Sequence 22, Appl
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857	25	61.0	2200	1	US-09-796-575-2	Sequence 2, Appl	930	24	58.5	119	2	US-09-023-082A-80	Sequence 80, Appl
858	25	61.0	2206	1	US-07-852-260-2	Sequence 2, Appl	931	24	58.5	119	2	US-09-248-998-80	Sequence 80, Appl
859	25	61.0	2206	1	US-08-461-503-2	Sequence 2, Appl	932	24	58.5	119	2	US-09-610-651-80	Sequence 80, Appl
860	25	61.0	2206	1	US-08-461-503-2	Sequence 2, Appl	933	24	58.5	119	2	US-09-345-373-80	Sequence 80, Appl
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871	25	61.0	2910	1	US-08-485-910-183	Sequence 183, App	944	24	58.5	133	2	US-09-345-373-70	Sequence 70, Appl
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877	24	58.5	8	2	US-09-839-542B-2220	Sequence 2220, Ap	950	24	58.5	136	2	US-09-107-532A-6435	Sequence 21248, A
878	24	58.5	8	2	US-10-006-869-2220	Sequence 20, Appl	951	24	58.5	139	2	US-09-248-796A-21248	Sequence 136, App
879	24	58.5	11	2	US-09-790-497A-21	Sequence 21, Appl	952	24	58.5	140	2	US-09-023-082A-136	Sequence 136, App
880	24	58.5	23	2	US-08-146-028-21	Sequence 21, Appl	953	24	58.5	140	2	US-09-248-998-136	Sequence 136, App
881	24	58.5	25	1	US-08-723-425A-21	Sequence 21, Appl	954	24	58.5	140	2	US-09-610-651-136	Sequence 136, App
882	24	58.5	25	2	US-09-112-206-21	Sequence 21, Appl	955	24	58.5	140	2	US-09-345-373-136	Sequence 136, App
883	24	58.5	25	2	US-09-576-824A-21	Sequence 21, Appl	956	24	58.5	141	2	US-10-075-446-136	Sequence 96, Appl
884	24	58.5	25	2	US-09-680-497-21	Sequence 21, Appl	957	24	58.5	141	2	US-09-023-082A-96	Sequence 96, Appl
885	24	58.5	25	2	US-09-509-738C-36	Sequence 36, Appl	958	24	58.5	141	2	US-09-023-082A-112	Sequence 112, App
886	24	58.5	25	2	US-09-433-428D-40	Sequence 40, Appl	959	24	58.5	141	2	US-09-023-082A-120	Sequence 120, App
887	24	58.5	33	2	US-09-318-675-126	Sequence 126, App	960	24	58.5	141	2	US-09-023-082A-124	Sequence 124, App
888	24	58.5	45	2	US-09-270-767-37911	Sequence 37911, A	961	24	58.5	141	2	US-09-023-082A-128	Sequence 128, App
889	24	58.5	59	2	US-09-270-767-53128	Sequence 53128, A	962	24	58.5	141	2	US-09-023-082A-132	Sequence 132, App
890	24	58.5	59	2	US-09-248-796A-18114	Sequence 18114, A	963	24	58.5	141	2	US-09-023-082A-140	Sequence 140, App
891	24	58.5	60	2	US-09-248-796A-26433	Sequence 26433, A	964	24	58.5	141	2	US-09-023-082A-146	Sequence 146, App
892	24	58.5	71	2	US-09-134-001C-3196	Sequence 3196, Ap	965	24	58.5	141	2	US-09-218-444-17	Sequence 17, Appl
893	24	58.5	81	2	US-09-134-000C-3397	Sequence 3397, Ap	966	24	58.5	141	2	US-09-218-444-33	Sequence 33, Appl
894	24	58.5	83	2	US-09-248-796A-23460	Sequence 23460, A	967	24	58.5	141	2	US-08-837-1192A-24	Sequence 96, Appl
895	24	58.5	85	2	US-09-023-082A-82	Sequence 82, Appl	968	24	58.5	141	2	US-09-248-998-112	Sequence 112, Appl
896	24	58.5	92	2	US-09-248-998-82	Sequence 82, Appl	969	24	58.5	141	2	US-09-248-998-120	Sequence 120, App
897	24	58.5	92	2	US-09-610-651-82	Sequence 82, Appl	970	24	58.5	141	2	US-09-248-998-124	Sequence 124, App
898	24	58.5	92	2	US-09-345-373-82	Sequence 82, Appl	971	24	58.5	141	2	US-09-248-998-128	Sequence 128, App
899	24	58.5	92	2	US-10-075-446-82	Sequence 82, Appl	972	24	58.5	141	2	US-09-248-998-132	Sequence 132, App
900	24	58.5	94	2	US-09-270-767-33699	Sequence 33699, A	973	24	58.5	141	2	US-09-248-998-140	Sequence 140, App
901	24	58.5	99	2	US-09-563-110-3188	Sequence 3188, Ap	974	24	58.5	141	2	US-09-248-998-146	Sequence 146, App
902	24	58.5	99	2	US-09-107-433-4418	Sequence 4418, Ap	975	24	58.5	141	2	US-09-853-666-17	Sequence 17, Appl
903	24	58.5	99	2			976	24	58.5	141	2		

977 24 58.5 141 2 US-09-853-666-33 Sequence 33, Appl  
978 24 58.5 141 2 US-09-610-651-96 Sequence 96, Appl  
979 24 58.5 141 2 US-09-610-651-112 Sequence 112, App  
980 24 58.5 141 2 US-09-610-651-120 Sequence 120, App  
981 24 58.5 141 2 US-09-610-651-124 Sequence 124, App  
982 24 58.5 141 2 US-09-610-651-128 Sequence 128, App  
983 24 58.5 141 2 US-09-610-651-132 Sequence 132, App  
984 24 58.5 141 2 US-09-610-651-136 Sequence 136, App  
985 24 58.5 141 2 US-09-610-651-146 Sequence 146, App  
986 24 58.5 141 2 US-09-284-100A-4 Sequence 4, Appl  
987 24 58.5 141 2 US-09-585-541-17 Sequence 17, Appl  
988 24 58.5 141 2 US-09-585-541-33 Sequence 33, Appl  
989 24 58.5 141 2 US-09-345-373-96 Sequence 96, Appl  
990 24 58.5 141 2 US-09-345-373-112 Sequence 112, App  
991 24 58.5 141 2 US-09-345-373-120 Sequence 120, App  
992 24 58.5 141 2 US-09-345-373-124 Sequence 124, App  
993 24 58.5 141 2 US-09-345-373-128 Sequence 128, App  
994 24 58.5 141 2 US-09-345-373-132 Sequence 132, App  
995 24 58.5 141 2 US-09-345-373-140 Sequence 140, App  
996 24 58.5 141 2 US-09-345-373-146 Sequence 146, App  
997 24 58.5 141 2 US-10-075-446-96 Sequence 96, Appl  
998 24 58.5 141 2 US-10-075-446-112 Sequence 112, App  
999 24 58.5 141 2 US-10-075-446-120 Sequence 120, App  
1000 24 58.5 141 2 US-10-075-446-124 Sequence 124, App

## ALIGNMENTS

RESULT 1  
US-08-159-339A-1174  
Sequence 1174, Application US/08159339A  
Patent No. 6037135  
GENERAL INFORMATION:  
APPLICANT: Kubo, Ralph T.  
APPLICANT: Grey, Howard M.  
APPLICANT: Sette, Alessandro  
APPLICANT: Celis, Esben  
TITLE OF INVENTION: HLA Binding peptides and Their  
NUMBER OF SEQUENCES: 1254  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/159,339A  
FILING DATE: 29-NOV-1993  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/926,666  
FILING DATE: 07-AUG-1992  
APPLICATION NUMBER: US 08/027,746  
FILING DATE: 05-MAR-1993  
APPLICATION NUMBER: US 08/103,396  
FILING DATE: 06-AUG-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Weber, Ellen Lauver  
REGISTRATION NUMBER: 32,762  
REFERENCE/DOCKET NUMBER: 018623-005030US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
TELEX:  
INFORMATION FOR SEQ ID NO: 1174:

SEQUENCE CHARACTERISTICS:  
LENGTH: 15 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-159-339A-1174

Query Match 100.0%; Score 41; DB 2; Length 15;  
Best Local Similarity 100.0%; Pred. No. 0.049;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 KTVLELREV 9  
Db 1 KTVLELREV 9

## RESULT 2

US-08-247-904B-10  
Sequence 10, Application US/08247904B  
Patent No. 5981699  
GENERAL INFORMATION:  
APPLICANT: Rolfe, Mark  
APPLICANT: Eckstein, Giulio  
APPLICANT: Diacetta, James W.  
TITLE OF INVENTION: Human Ubiquitin Conjugating Enzyme  
NUMBER OF SEQUENCES: 17  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Foley, Hoag & Eliot  
STREET: One Post Office Square  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: ASCII(text)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/247,904B  
FILING DATE: 23-MAY-1994  
CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: Vincent, Matthew P.  
REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: MIV-029.01  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 832-1000  
TELEFAX: (617) 832-7000  
INFORMATION FOR SEQ ID NO: 10:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 158 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-247-904B-10

Query Match 100.0%; Score 41; DB 1; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.61;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 KTVLELREV 9  
Db 36 KTVLELREV 44

RESULT 3  
US-08-767-942A-19  
Sequence 19, Application US/08767942A  
Patent No. 6068982  
GENERAL INFORMATION:  
APPLICANT: Rolfe, Mark

```

;
; APPLICANT: Chin, M. Isabel
; APPLICANT: Berlin, Vivian
; APPLICANT: Damagnez, Veronique
; APPLICANT: Draetta, Giulio
; APPLICANT: Guillaume, Cottarel
; TITLE OF INVENTION: UBIQUITIN CONJUGATING ENZYMES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY, HOAG & ELLIOT LLP
; STREET: One Post Office Square
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109-2170
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/767,942A
; FILING DATE: 17-DEC-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Vincent, Matthew P.
; REGISTRATION NUMBER: 36,709
; REFERENCE/DOCKET NUMBER: MIV-029.04
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-833-1000
; TELEFAX: 617-832-7000
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 158 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-767-942A-19

Query Match          100.0%; Score 41; DB 2; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.61;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KTVLELTV 9
        |||||
Db      36 KTVLELTV 44

RESULT 4
US-08-117-083-14
; Sequence 14, Application US/08117083
; Patent No. 5719054
; GENERAL INFORMATION:
; APPLICANT: Bourneil, Michael E.
; APPLICANT: Inglis, Stephen C.
; APPLICANT: Munro, Alan J.
; TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human
; TITLE OF INVENTION: Papilloma Virus Proteins
; NUMBER OF SEQUENCES: 70
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Walter H. Dreger
; STREET: 4 Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/117,083
; FILING DATE: 10-SEP-1993
; CLASSIFICATION: 435

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;
; ATTORNEY/AGENT INFORMATION:
; NAME: Dreger, Walter H.
; REGISTRATION NUMBER: 24,190
; REFERENCE/DOCKET NUMBER: A-58783
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-781-1989
; TELEFAX: 415-398-3249
; TELEX: 910 277299
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 271 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..271
; OTHER INFORMATION:
; OTHER INFORMATION: /note="Xaa refers to stop codon in
; US-08-117-083-14

Query Match          100.0%; Score 41; DB 1; Length 271;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KTVLELTV 9
        |||||
Db      37 KTVLELTV 45

RESULT 5
US-09-485-885-21
; Sequence 21, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Benchelkh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 21
; LENGTH: 278
; TYPE: PRT
; ORGANISM: Homo sapien
; US-09-485-885-21

Query Match          100.0%; Score 41; DB 2; Length 278;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KTVLELTV 9
        |||||
Db      147 KTVLELTV 155

RESULT 6
US-09-485-885-23
; Sequence 23, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa

```

```

; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485, 885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP96/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Homo sapien
; US-09-485-885-23

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Query Match      100.0%; Score 41; DB 2; Length 383;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      1 KTVLELREV 9
        |||||
Db      147 KTVLELREV 155

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RESULT 7
; US-09-107-532A-5220
; Sequence 5220, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107, 532A
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085, 598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Arinello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 5220:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 270 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium

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; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (B) LOCATION 1...270
; SEQUENCE DESCRIPTION: SEQ ID NO: 5220:
US-09-107-532A-5220

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Query Match      85.4%; Score 35; DB 2; Length 270;
Best Local Similarity 87.5%; Pred. No. 18;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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Qy      1 KTVLELRE 8
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Db      190 KTVLELRE 197

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RESULT 8
; US-09-621-976-5771
; Sequence 5771, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 5771
; LENGTH: 77
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -21...-1
; US-09-621-976-5771

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Query Match      80.5%; Score 33; DB 2; Length 77;
Best Local Similarity 87.5%; Pred. No. 12;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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Qy      2 TVLELREV 9
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Db      33 TVLELREV 40

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RESULT 9
; US-08-605-163-22
; Sequence 22, Application US/08605163
; Patent No. 5879886
; GENERAL INFORMATION:
; APPLICANT: Meo, Tommaso
; APPLICANT: Tosi, Mario
; APPLICANT: Verdy, Elisabeth
; APPLICANT: Bisotto, Michel
; TITLE OF INVENTION: Method for Detecting Molecules
; TITLE OF INVENTION: Containing Nucleotide Mismatches and the Location of These
; TITLE OF INVENTION: Mismatches, and Application to the Detection of Base
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS

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SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/605.163  
FILING DATE: 08-MAR-1996  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Meyers, Kenneth J.  
REGISTRATION NUMBER: 25,146  
REFERENCE/DOCKET NUMBER: 05986.0005-00000  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 408-4000  
FAX: (202) 408-4400  
INFORMATION FOR SEQ ID NO: 22:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 84 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FEATURE:  
NAME/KEY: Peptide  
LOCATION: 57  
OTHER INFORMATION: /note= "Xaa = Val or Met"  
FEATURE:  
NAME/KEY: Peptide  
LOCATION: 58  
OTHER INFORMATION: /note= "Xaa = Gln or Glu"  
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FEATURE:  
NAME/KEY: Peptide  
LOCATION: 65  
OTHER INFORMATION: /note= "Xaa = Leu or Pro or Arg"  
FEATURE:  
NAME/KEY: Peptide  
LOCATION: 73  
OTHER INFORMATION: /note= "Xaa = Pro or Arg"  
FEATURE:  
NAME/KEY: Peptide  
LOCATION: 78  
OTHER INFORMATION: /note= "Xaa = Arg or Stop"  
FEATURE:  
NAME/KEY: Peptide  
LOCATION: 82  
OTHER INFORMATION: /note= "Xaa = Pro or Ser"  
US-08-605-163-22  
Query Match 80.5%; Score 33; DB 1; Length 84;  
Best Local Similarity 87.5%; Pred. No. 13;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
QY 1 KTVLELTE 8  
DB 28 QTVLELTE 35  
RESULT 10  
US-07-755-573C-8  
Sequence 8, Application US/07755573C  
Patent No. 5622930  
GENERAL INFORMATION:  
APPLICANT: Eldeberg, Eric  
TITLE OF INVENTION: C1 Esterase Inhibitor Molecules  
NUMBER OF SEQUENCES: 8  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Marshall, O'Toole, Garstein, Murray & Borun

STREET: 6300 Sears Tower, 233 South Wacker Drive  
CITY: Chicago  
STATE: Illinois  
COUNTRY: United States of America  
ZIP: 60606-6402  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/755,573C  
FILING DATE: 05-SEP-1991  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Pochopien, Donald J.  
REGISTRATION NUMBER: 32,167  
REFERENCE/DOCKET NUMBER: 28687/32920  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 312/474-6300  
FAX: 312/474-0448  
TELEX: 25-3856  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 500 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-07-755-573C-8  
Query Match 80.5%; Score 33; DB 1; Length 500;  
Best Local Similarity 87.5%; Pred. No. 91;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
QY 1 KTVLELTE 8  
DB 444 QTVLELTE 451  
RESULT 11  
US-09-519-878-2  
Sequence 2, Application US/09519878  
Patent No. 6500929  
GENERAL INFORMATION:  
APPLICANT: MIYAGAWA, Shuji  
TITLE OF INVENTION: MEMBERANE-BOUND C1 INHIBITOR  
FILE REFERENCE: 10797-0001-0  
CURRENT FILING DATE: 2000-03-06  
CURRENT APPLICATION NUMBER: US/09/519,878  
PRIOR FILING DATE: 1999-07-21  
NUMBER OF SEQ ID NOS: 6  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 2  
LENGTH: 500  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-519-878-2  
Query Match 80.5%; Score 33; DB 2; Length 500;  
Best Local Similarity 87.5%; Pred. No. 91;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
QY 1 KTVLELTE 8  
DB 444 QTVLELTE 451  
RESULT 12  
US-09-519-878-4  
Sequence 4, Application US/09519878  
Patent No. 6500929  
GENERAL INFORMATION:

APPLICANT: MIYAGAWA, Shuji  
TITLE OF INVENTION: MEMBRANE-BOUND C1 INHIBITOR  
FILE REFERENCE: 10797-0001-0  
CURRENT APPLICATION NUMBER: US/09/519, 878  
CURRENT FILING DATE: 2000-03-06  
PRIOR APPLICATION NUMBER: JP 11-206535  
PRIOR FILING DATE: 1999-07-21  
NUMBER OF SEQ ID NOS: 6  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 4  
LENGTH: 504  
TYPE: PRT  
ORGANISM: Mus musculus  
US-09-519-878-4

Query Match 80.5%; Score 33; DB 2; Length 504;  
Best Local Similarity 87.5%; Pred. No. 91;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTE 8  
Db 448 ETVLELTE 455

RESULT 13  
US-09-949-016-10586  
Sequence 10586, Application US/09949016  
Patent No. 6812339  
GENERAL INFORMATION:  
APPLICANT: VENTER, J. Craig et al.  
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
FILE REFERENCE: C1001307  
CURRENT APPLICATION NUMBER: US/09/949, 016  
CURRENT FILING DATE: 2000-04-14  
PRIOR APPLICATION NUMBER: 60/241,755  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/237,768  
PRIOR FILING DATE: 2000-10-03  
PRIOR APPLICATION NUMBER: 60/231,498  
PRIOR FILING DATE: 2000-09-08  
NUMBER OF SEQ ID NOS: 207012  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 10586  
LENGTH: 520  
TYPE: PRT  
ORGANISM: Human  
US-09-949-016-10586

Query Match 80.5%; Score 33; DB 2; Length 520;  
Best Local Similarity 87.5%; Pred. No. 94;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTE 8  
Db 464 QTVLELTE 471

RESULT 14  
US-09-902-540-11825  
Sequence 11825, Application US/09902540  
Patent No. 6833447  
GENERAL INFORMATION:  
APPLICANT: Goldman, Barry S.  
APPLICANT: Hinkle, Gregory J.  
APPLICANT: Slater, Steven C.  
APPLICANT: Wiegand, Roger C.  
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof  
FILE REFERENCE: 38-10(15849)B  
CURRENT APPLICATION NUMBER: US/09/902,540  
CURRENT FILING DATE: 2001-07-10  
PRIOR APPLICATION NUMBER: 60/217,883  
PRIOR FILING DATE: 2000-07-10

NUMBER OF SEQ ID NOS: 16825  
SEQ ID NO 11825  
LENGTH: 386  
TYPE: PRT  
ORGANISM: Myxococcus xanthus  
US-09-902-540-11825

Query Match 75.6%; Score 31; DB 2; Length 386;  
Best Local Similarity 75.0%; Pred. NO. 1.8e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KTVLELTE 8  
Db 56 KTVLELTE 63

RESULT 15  
US-09-902-540-16694  
Sequence 16694, Application US/09902540  
Patent No. 6833447  
GENERAL INFORMATION:  
APPLICANT: Goldman, Barry S.  
APPLICANT: Hinkle, Gregory J.  
APPLICANT: Slater, Steven C.  
APPLICANT: Wiegand, Roger C.  
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof  
FILE REFERENCE: 38-10(15849)B  
CURRENT APPLICATION NUMBER: US/09/902,540  
CURRENT FILING DATE: 2001-07-10  
PRIOR APPLICATION NUMBER: 60/217,883  
PRIOR FILING DATE: 2000-07-10  
NUMBER OF SEQ ID NOS: 16825  
SEQ ID NO 16694  
LENGTH: 489  
TYPE: PRT  
ORGANISM: Myxococcus xanthus  
US-09-902-540-16694

Query Match 75.6%; Score 31; DB 2; Length 489;  
Best Local Similarity 62.5%; Pred. NO. 2.3e+02;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 2 TVLELTEV 9  
Db 71 TTVLELTE 78

RESULT 16  
US-08-881-784-1  
Sequence 1, Application US/08881784  
Patent No. 6083731  
GENERAL INFORMATION:  
APPLICANT: Croteau, Rodney B.  
APPLICANT: Lupien, Shari L.  
APPLICANT: Karp, Frank  
TITLE OF INVENTION: RECOMBINANT MATERIALS AND METHODS FOR  
THE PRODUCTION OF LIMONENE HYDROXYLASES  
NUMBER OF SEQUENCES: 58  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Christensen, O'Connor, Johnson and Kindness  
ADDRESSER: PULC  
STREET: 1420 Fifth Avenue, Suite 2800  
CITY: Seattle  
STATE: WA  
COUNTRY: USA  
ZIP: 98101  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/881,784

```

: PILING DATE:
: CLASSIFICATION: 435
: ATTORNEY/AGENT INFORMATION:
: NAME: Shelton, Dennis K.
: REGISTRATION NUMBER: 26,997
: REFERENCE/DOCKET NUMBER: WSRU9777
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (206) 224-0718
: TELEFAX: (206) 224-0779
: INFORMATION FOR SEQ ID NO: 1:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 496 amino acids
: TYPE: amino acid
: STRANDEDNESS:
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: ORIGINAL SOURCE:
: ORGANISM: Mentha spicata
: IMMEDIATE SOURCE:
: CLONE: SM12.2
: FEATURE:
: NAME/KEY: Cleavage-site
: LOCATION: 7..27
: OTHER INFORMATION: /note= "V-8.2 proteolytic fragment"
: FEATURE:
: NAME/KEY: Active-site
: LOCATION: 7..48
: OTHER INFORMATION: /note= "Membrane insertion"
: OTHER INFORMATION: sequence"
: FEATURE:
: NAME/KEY: Active-site
: LOCATION: 44..48
: OTHER INFORMATION: /note= "Half-transfer signal"
: FEATURE:
: NAME/KEY: Cleavage-site
: LOCATION: 182..206
: OTHER INFORMATION: /note= "V-8.1 proteolytic fragment"
: FEATURE:
: NAME/KEY: Cleavage-site
: LOCATION: 380..404
: OTHER INFORMATION: /note= "V-8.3 proteolytic fragment"
: FEATURE:
: NAME/KEY: Binding-site
: LOCATION: 429..454
: OTHER INFORMATION: /note= "Heme binding region"
: US-08-881-784-1
:
: Query Match 75.6%; Score 31; DB 2; Length 496;
: Best Local Similarity 66.7%; Pred. No. 2.3e+02;
: Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0
:
: Oy 1 KTVLELTV 9
: Db 335 KTVVDLSEV 343
:
: RESULT 17
: US-09-292-768-2
: Sequence 2, Application US/09292768
: Patent No. 6139185
: GENERAL INFORMATION:
: APPLICANT: Croteau, Rodney B
: APPLICANT: Lupien, Shari L
: APPLICANT: Karp, Frank
: TITLE OF INVENTION: RECOMBINANT MATERIALS AND METHODS FOR THE PRODUCTION OF
: FILE REFERENCE: WSRU13463
: CURRENT APPLICATION NUMBER: US/09/292,768
: EARLIER APPLICATION NUMBER: 08/881,784
: EARLIER FILING DATE: 1997-06-24
: NUMBER OF SEQ ID NOS: 70
: SOFTWARE: PatentIn Ver. 2.0

```

```

: SEQ ID NO 2
: LENGTH: 496
: TYPE: PRT
: ORGANISM: Mentha spicata
US-09-292-768-2

Query Match
Best Local Similarity 66.7%; Pred. No. 2.3e+02;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTV 9
|||::||
Db 335 KTVVDLSEV 343

RESULT 18
US-09-292-768-64
: Sequence 64, Application US/09292768
: Patent No. 6194185
: GENERAL INFORMATION:
: APPLICANT: Croteau, Rodney B
: APPLICANT: Lupien, Shari L
: TITLE OF INVENTION: RECOMBINANT MATERIALS AND METHODS FOR THE PRODUCTION OF
: TITLE OF INVENTION: LIMONENE HYDROXYLASES
: FILE REFERENCE: waur13463
: CURRENT APPLICATION NUMBER: US/09/292,768
: CURRENT FILING DATE: 1999-04-14
: EARLIER APPLICATION NUMBER: 08/881,784
: EARLIER FILING DATE: 1997-06-24
: NUMBER OF SEQ ID NOS: 70
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 64
: LENGTH: 496
: TYPE: PRT
: ORGANISM: Artificial Sequence
US-09-292-768-64

Query Match
Best Local Similarity 66.7%; Pred. No. 2.3e+02;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTV 9
|||::||
Db 335 KTVVDLSEV 343

RESULT 19
US-09-292-768-66
: Sequence 66, Application US/09292768
: Patent No. 6194185
: GENERAL INFORMATION:
: APPLICANT: Croteau, Rodney B
: APPLICANT: Lupien, Shari L
: APPLICANT: Karp, Frank
: TITLE OF INVENTION: RECOMBINANT MATERIALS AND METHODS FOR THE PRODUCTION OF
: TITLE OF INVENTION: LIMONENE HYDROXYLASES
: FILE REFERENCE: waur13463
: CURRENT APPLICATION NUMBER: US/09/292,768
: CURRENT FILING DATE: 1999-04-14
: EARLIER APPLICATION NUMBER: 08/881,784
: EARLIER FILING DATE: 1997-06-24
: NUMBER OF SEQ ID NOS: 70
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 66
: LENGTH: 496
: TYPE: PRT
: ORGANISM: Artificial Sequence
US-09-292-768-66

Query Match
Best Local Similarity 75.6%; Score 31; DB 2; Length 496;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTV 9
|||::||
Db 335 KTVVDLSEV 343

Query Match
Best Local Similarity 75.6%; Score 31; DB 2; Length 496;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

```

Qy 1 KTVLELTV 9  
Db 335 KTVVDLSEV 343

## RESULT 20

US-09-172-339-6  
Sequence 6, Application US/09172339  
Patent No. 6291745  
GENERAL INFORMATION:  
APPLICANT: Eucilaie Meyer, Terry  
APPLICANT: Yalpani, Nasser  
TITLE OF INVENTION: Limonene and Other Downstream  
TITLE OF INVENTION: Metabolites of Geranyl Pyrophosphate for Insect Control in  
TITLE OF INVENTION: Plants  
FILE REFERENCE: 5718-65  
CURRENT APPLICATION NUMBER: US/09/172,339  
CURRENT FILING DATE: 1998-10-14  
EARLIER APPLICATION NUMBER: 08/449,061  
EARLIER FILING DATE: 1995-05-24  
EARLIER APPLICATION NUMBER: 08/153,544  
EARLIER FILING DATE: 1993-11-16  
EARLIER APPLICATION NUMBER: 08/042,199  
EARLIER FILING DATE: 1993-04-02  
NUMBER OF SEQ ID NOS: 8  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 6  
LENGTH: 496  
TYPE: PRT  
ORGANISM: Mentha spicata  
US-09-172-339-6

Query Match 75.6%; Score 31; DB 2; Length 496;  
Best Local Similarity 66.7%; Pred. No. 2.3e+02;  
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KTVLELTV 9  
Db 335 KTVVDLSEV 343

## RESULT 21

US-09-107-532A-5733  
Sequence 5733, Application US/09107532A  
Patent No. 6583275  
GENERAL INFORMATION:  
APPLICANT: Lynn A Doucette-Stamm and David Bush  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO  
ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS  
NUMBER OF SEQUENCES: 7310  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: GENOME THERAPEUTICS CORPORATION  
STREET: 100 Beaver Street  
CITY: Waltham  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02354  
COMPUTER READABLE FORM:  
MEDIUM TYPE: CD-ROM ISO9660  
COMPUTER: PC  
OPERATING SYSTEM: <Unknown>  
SOFTWARE: ASCII  
CURRENT APPLICATION DATA:  
APPLICANT: Lynn A Doucette-Stamm and David Bush  
FILING DATE: 30-Jun-1998  
APPLICATION NUMBER: US/09/107,532A  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/085,598  
FILING DATE: 14 May 1998  
APPLICATION NUMBER: 60/051571  
FILING DATE: July 2, 1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Arinello, Pamela Deneke

REGISTRATION NUMBER: 40,489  
REFERENCE/DOCKET NUMBER: GTC-012  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (781)893-5007  
TELEFAX: (781)893-8277  
INFORMATION FOR SEQ ID NO: 5733:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 575 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHEICAL: YES  
ORIGINAL SOURCE:  
ORGANISM: Enterococcus faecium  
FEATURE:  
NAME/KEY: misc.feature  
LOCATION: (B) LOCATION 1...575  
SEQUENCE DESCRIPTION: SEQ ID NO: 5733:  
US-09-107-532A-5733

Query Match 75.6%; Score 31; DB 2; Length 575;  
Best Local Similarity 75.0%; Pred. No. 2.7e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KTVLELTV 8  
Db 364 KTVLELTV 371

## RESULT 22

US-09-328-352-4973  
Sequence 4973, Application US/09328352  
Patent No. 6562958  
GENERAL INFORMATION:  
APPLICANT: Gary L. Breton et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER  
FILE REFERENCE: GTC99-03PA  
CURRENT APPLICATION NUMBER: US/09/328,352  
CURRENT FILING DATE: 1999-06-04  
NUMBER OF SEQ ID NOS: 8252  
SEQ ID NO 4973  
LENGTH: 1128  
TYPE: PRT  
ORGANISM: Acinetobacter baumannii  
US-09-328-352-4973

Query Match 75.6%; Score 31; DB 2; Length 1128;  
Best Local Similarity 55.6%; Pred. No. 5.6e+02;  
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KTVLELTV 9  
Db 148 KTVLELTV 156

## RESULT 23

US-09-107-532A-5004  
Sequence 5004, Application US/09107532A  
Patent No. 6583275  
GENERAL INFORMATION:  
APPLICANT: Lynn A Doucette-Stamm and David Bush  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO  
ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS  
NUMBER OF SEQUENCES: 7310  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: GENOME THERAPEUTICS CORPORATION  
STREET: 100 Beaver Street  
CITY: Waltham  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02354  
COMPUTER READABLE FORM:



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; MEDIUM TYPE: CD/ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Arinello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 5004:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 166 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHEetical: YES
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (8) LOCATION 1...166
; SEQUENCE DESCRIPTION: SEQ ID NO: 5004:
US-09-107-532A-5004

Query Match      73.2%; Score 30; DB 2; Length 166;
Best Local Similarity 77.8%; Pred. No. 1.1e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 KTVLELTV 9
         |||||
Db      120 KDVLEATEV 128

RESULT 24
US-09-270-767-58131
; Sequence 58131, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 58131
; LENGTH: 180
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-58131

Query Match      73.2%; Score 30; DB 2; Length 180;
Best Local Similarity 62.5%; Pred. No. 1.2e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1 KTVLELTV 8
         |||||
Db      22 KTIIELESE 29

RESULT 25
US-09-540-236-2012
; Sequence 2012, Application US/09540236
```

```

; Patent No. 6673910
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO MORAXELLA CATAR
; FILE REFERENCE: 2709.2005-001
; CURRENT APPLICATION NUMBER: US/09/540,236
; CURRENT FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 3840
; SEQ ID NO 2012
; LENGTH: 202
; TYPE: PRT
; ORGANISM: M.catarrhalis
US-09-540-236-2012

Query Match      73.2%; Score 30; DB 2; Length 202;
Best Local Similarity 85.7%; Pred. No. 1.4e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      3 VLELTV 9
         |||||
Db      189 ILELTV 195

RESULT 26
US-09-248-796A-18704
; Sequence 18704, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstein et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 18704
; LENGTH: 230
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-18704

Query Match      73.2%; Score 30; DB 2; Length 230;
Best Local Similarity 75.0%; Pred. No. 1.6e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 KTVLELTV 8
         |||||
Db      102 KQILELTV 109

RESULT 27
US-09-710-279-3062
; Sequence 3062, Application US/09710279
; Patent No. 6703492
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: P03480US
; CURRENT APPLICATION NUMBER: US/09/710,279
; CURRENT FILING DATE: 2000-11-09
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1998-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 3062
; LENGTH: 302
; TYPE: PRT
; ORGANISM: Artificial Sequence
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FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: amino acid sequence
US-09-710-279-3062

Query Match      73.2%; Score 30; DB 2; Length 302;
Best Local Similarity 55.6%; Pred. No. 2.2e+02;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1 KTVLELTV 9
       ||:|||||:
Db      170 KSLLELTDI 178

RESULT 28
US-09-134-001C-4521
; Sequence 4521, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
; FILE REFERENCE: GTC-007
; CURRENT APPLICATION NUMBER: US/09/134,001C
; PRIOR FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/064,964
; PRIOR FILING DATE: 1997-11-08
; PRIOR APPLICATION NUMBER: US 60/055,779
; PRIOR FILING DATE: 1997-08-14
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 4521
; LENGTH: 315
; TYPE: PRT
; ORGANISM: Staphylococcus epidermidis
US-09-134-001C-4521

Query Match      73.2%; Score 30; DB 2; Length 315;
Best Local Similarity 55.6%; Pred. No. 2.3e+02;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1 KTVLELTV 9
       ||:|||||:
Db      183 KSLLELTDI 191

RESULT 29
US-09-712-363-268
; Sequence 268, Application US/09712363
; Patent No. 6892139
; GENERAL INFORMATION:
; APPLICANT: Eisenberg, David
; APPLICANT: Rotstein, Sergio H.
; APPLICANT: Marcotte, Edward M.
; TITLE OF INVENTION: DETERMINING THE FUNCTIONS AND
; TITLE OF INVENTION: INTERACTIONS OF PROTEINS BY COMPARATIVE ANALYSIS
; FILE REFERENCE: 07419-032001
; CURRENT APPLICATION NUMBER: US/09/712,363
; CURRENT FILING DATE: 2000-11-13
; PRIOR APPLICATION NUMBER: PCT/US00/02246
; PRIOR FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/119,531
; PRIOR FILING DATE: 2000-02-01
; PRIOR APPLICATION NUMBER: 60/117,844
; PRIOR FILING DATE: 1999-01-29
; PRIOR APPLICATION NUMBER: 60/118,206
; PRIOR FILING DATE: 1999-02-01
; PRIOR APPLICATION NUMBER: 60/126,553
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: 60/134,093
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: 60/134,092
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: 60/165,124

; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/165,086
; PRIOR FILING DATE: 1999-11-12
; NUMBER OF SEQ ID NOS: 292
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 268
; LENGTH: 408
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-09-712-363-268

Query Match      73.2%; Score 30; DB 2; Length 408;
Best Local Similarity 87.5%; Pred. No. 3e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KTVLELTV 8
       ||:|||||
Db      224 KTVLELGE 231

RESULT 30
US-09-270-767-42815
; Sequence 42815, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 42815
; LENGTH: 423
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-42815

Query Match      73.2%; Score 30; DB 2; Length 423;
Best Local Similarity 62.5%; Pred. No. 3.1e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1 KTVLELTV 8
       ||:|||||
Db      22 KTVLELSE 29

RESULT 31
US-09-198-452A-561
; Sequence 561, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Griffois, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 561
; LENGTH: 519
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae
US-09-198-452A-561

Query Match      73.2%; Score 30; DB 2; Length 519;
Best Local Similarity 87.5%; Pred. No. 3.9e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KTVLELTV 8
       ||:|||||
```

Db 171 KTVNELTE 178

RESULT 32  
US-09-438-185A-523  
; Sequence 523, Application US/09438185A  
; Patent No. 6822071  
; GENERAL INFORMATION:  
; APPLICANT: Stephens, Richard  
; APPLICANT: Mitchell, Wayne  
; APPLICANT: Kaiman, Sue  
; APPLICANT: Davis, Ronald  
; APPLICANT: The Regents of the University of California  
; TITLE OF INVENTION: Chlamydia Pneumoniae Genome Sequence  
; FILE REFERENCE: 018941-000411US  
; CURRENT APPLICATION NUMBER: US/09/438,185A  
; PRIOR FILING DATE: 2002-03-13  
; PRIOR APPLICATION NUMBER: US 60/108,279  
; PRIOR FILING DATE: 1998-11-12  
; PRIOR APPLICATION NUMBER: US 60/128,606  
; PRIOR FILING DATE: 1999-04-08  
; NUMBER OF SEQ ID NOS: 1074  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 523  
; LENGTH: 521  
; TYPE: PRT  
; ORGANISM: Chlamydia pneumoniae  
; FEATURE:  
; OTHER INFORMATION: CPn0521  
US-09-438-185A-523

Query Match 73.2%; Score 30; DB 2; Length 521;  
Best Local Similarity 87.5%; Pred. No. 3.9e+02;  
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KTVNELTE 8  
Db 173 KTVNELTE 180

RESULT 33  
US-09-233-989-5  
; Sequence 5, Application US/09233989  
; Patent No. 6248527  
; GENERAL INFORMATION:  
; APPLICANT: Chen, Joanne  
; APPLICANT: Meyer, Joanne  
; TITLE OF INVENTION: Method of Detecting Risk of Type II Diabetes Based on  
; TITLE OF INVENTION: Mutations Found in Carboxypeptidase E  
; FILE REFERENCE: 5800-14, 035800/174130  
; CURRENT APPLICATION NUMBER: US/09/233,989  
; CURRENT FILING DATE: 1999-01-19  
; EARLIER APPLICATION NUMBER: 60/105,102  
; EARLIER FILING DATE: 1998-10-21  
; NUMBER OF SEQ ID NOS: 10  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 561  
; TYPE: PRT  
; ORGANISM: bovine  
; FEATURE:  
; OTHER INFORMATION: carboxypeptidase E  
US-09-233-989-5

Query Match 73.2%; Score 30; DB 2; Length 561;  
Best Local Similarity 85.7%; Pred. No. 4.2e+02;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 KTVNELTE 8  
Db 84 KTVNELTE 90

RESULT 34  
US-09-107-532A-5096  
; Sequence 5096, Application US/09107532A  
; Patent No. 6583275

; GENERAL INFORMATION:  
; APPLICANT: Lynn A Doucette-Stamm and David Bush  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO  
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS  
; NUMBER OF SEQUENCES: 7310  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION  
; STREET: 100 Beaver Street  
; CITY: Waltham  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02354  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: CD-ROM ISO9660  
; COMPUTER: PC  
; OPERATING SYSTEM: <Unknown>  
; SOFTWARE: ASCII  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/107,532A  
; FILING DATE: 30-Jun-1998  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 60/085,598  
; FILING DATE: 14 May 1998  
; APPLICATION NUMBER: 60/051571  
; FILING DATE: July 2, 1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Arinello, Pamela Deneke  
; REGISTRATION NUMBER: 40,489  
; REFERENCE/DOCKET NUMBER: GTC-012  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (781) 893-5007  
; TELEFAX: (781) 893-8277  
; INFORMATION FOR SEQ ID NO: 5096:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 738 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; HYPOTHEetical: YES  
; ORIGINAL SOURCE:  
; ORGANISM: Enterococcus faecium  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (8) LOCATION 1...738  
; SEQUENCE DESCRIPTION: SEQ ID NO: 5096:  
US-09-107-532A-5096

Query Match 73.2%; Score 30; DB 2; Length 738;  
Best Local Similarity 66.7%; Pred. No. 5.6e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KTVNELTEV 9  
Db 712 KTVNELTHI 720

RESULT 35  
US-07-921-807B-2  
; Sequence 2, Application US/07921807B  
; Patent No. 5474914  
; GENERAL INFORMATION:  
; APPLICANT: SPARE, RICHARD  
; TITLE OF INVENTION: METHOD OF INCREASING EXPRESSION  
; TITLE OF INVENTION: OF VIRAL PROTEINS  
; NUMBER OF SEQUENCES: 20  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: CHIRON CORPORATION  
; STREET: 4560 Horton Street - R440

CITY: Emeryville  
STATE: CA  
COUNTRY: USA  
ZIP: 94608-2916  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/921,807B  
FILING DATE: 29-SEP-1992  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: MCCUNG, BARBARA G.  
REGISTRATION NUMBER: 33,113  
REFERENCE/DOCKET NUMBER: 0209.001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (510) 601-2708  
TELEFAX: (510) 655-3542  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 742 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-07-921-807B-2

Query Match 73.2%; Score 30; DB 1; Length 742;  
Best Local Similarity 75.0%; Pred. No. 5.7e+02;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TVLELTV 9  
Db 702 TVLELTV 709

RESULT 36  
US-08-441-944A-2  
Sequence 2, Application US/08441944A  
Patent No. 5767250  
GENERAL INFORMATION:  
APPLICANT: SPARE, RICHARD  
TITLE OF INVENTION: METHOD OF INCREASING EXPRESSION  
NUMBER OF SEQUENCES: 20  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: CHIRON CORPORATION  
STREET: 4560 Horton Street - R440  
CITY: Emeryville  
STATE: CA  
COUNTRY: USA  
ZIP: 94608-2916  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/441,944A  
FILING DATE: 16-MAY-1995  
CLASSIFICATION: 530  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/921,807  
FILING DATE: 29-SEP-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: MCCUNG, BARBARA G.  
REGISTRATION NUMBER: 33,113  
REFERENCE/DOCKET NUMBER: 0209.001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (510) 601-2708  
TELEFAX: (510) 655-3542  
INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:  
LENGTH: 742 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-441-944A-2

Query Match 73.2%; Score 30; DB 1; Length 742;  
Best Local Similarity 75.0%; Pred. No. 5.7e+02;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TVLELTV 9  
Db 702 TVLELTV 709

RESULT 37  
US-08-447-464-3  
Sequence 3, Application US/08447464  
Patent No. 5840842  
GENERAL INFORMATION:  
APPLICANT: Schlessinger, Joseph  
TITLE OF INVENTION: NOVEL RECEPTOR-TYPE PROTEIN  
NUMBER OF SEQUENCES: 12  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Pennile & Edmonds  
STREET: 1155 Avenue of the Americas  
CITY: New York  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 10036-2711  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/447,464  
FILING DATE: 24-MAY-1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/130,570  
FILING DATE: 01-OCT-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Mastrock, S. Leslie  
REGISTRATION NUMBER: 18,872  
REFERENCE/DOCKET NUMBER: 7683-043  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 212-790-9090  
TELEFAX: 212-869-8864/9741  
TELEX: 66141 PENNIE  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1501 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-447-464-3

Query Match 73.2%; Score 30; DB 1; Length 1501;  
Best Local Similarity 66.7%; Pred. No. 1.2e+03;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KTVLELTV 9  
Db 282 KTVLELTV 290

RESULT 38  
US-08-716-679-3  
Sequence 3, Application US/08716679

```
; Patent No. 5846800
; GENERAL INFORMATION:
; APPLICANT: Schleisinger, Joseph
; APPLICANT: Yan, Hai
; TITLE OF INVENTION: NOVEL RECEPTOR-TYPE PROTEIN
; TITLE OF INVENTION: PHOSPHOTRANSFERASE-SIGNAL
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/716,679
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/130,570
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Mirock, S. Leslie
; REGISTRATION NUMBER: 18,872
; REFERENCE/DOCKET NUMBER: 7683-043
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-790-9090
; TELEFAX: 212-869-8864/9741
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1501 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-716-679-3

Query Match      73.2%; Score 30; DB 1; Length 1501;
Best Local Similarity 66.7%; Pred. No. 1.2e+03;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      1 KTVLELTV 9
Db      282 RVNLELTV 290

RESULT 39
US-09-920-653B-3
; Sequence 3, Application US/09920653B
; Patent No. 6933422
; GENERAL INFORMATION:
; APPLICANT: Japan as Represented by Director General of Okazaki National
; APPLICANT: Research
; APPLICANT: Institutes
; TITLE OF INVENTION: Nav2 channel gene-deficient non-human animals
; FILE REFERENCE: U2001P059
; CURRENT APPLICATION NUMBER: US/09/920,653B
; CURRENT FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: JP 2000/237320
; PRIOR FILING DATE: 2000-08-04
; PRIOR APPLICATION NUMBER: JP 2000/241637
; PRIOR FILING DATE: 2000-08-09
; PRIOR APPLICATION NUMBER: JP 2001/222263
; PRIOR FILING DATE: 2001-07-23
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 3
; LENGTH: 1681
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```
; TYPE: PRT
; ORGANISM: Mus musculus
; US-09-920-653B-3

Query Match      73.2%; Score 30; DB 2; Length 1681;
Best Local Similarity 85.7%; Pred. No. 1.4e+03;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      3 VLELTV 9
Db      579 VLELTV 585

RESULT 40
US-08-348-006B-5
; Sequence 5, Application US/08348006B
; Patent No. 5658756
; GENERAL INFORMATION:
; APPLICANT: RODAN, GIDEON A.
; APPLICANT: SCHMIDT, AZRIEL
; APPLICANT: RUTLEDGE, SU JANE
; TITLE OF INVENTION: CDNA ENCODING A NOVEL HUMAN PROTEIN
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: J. MARK HAND
; STREET: 126 E. LINCOLN AVE., P.O. BOX 2000
; CITY: RAHWAY
; STATE: NEW JERSEY
; COUNTRY: USA
; ZIP: 07065-0900
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/348,006B
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/122,032
; FILING DATE: 14-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: HAND, J., MARK
; REGISTRATION NUMBER: 36,545
; REFERENCE/DOCKET NUMBER: 189921A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 908-594-3905
; TELEFAX: 908-594-4720
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1911 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-348-006B-5

Query Match      73.2%; Score 30; DB 1; Length 1911;
Best Local Similarity 66.7%; Pred. No. 1.6e+03;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      1 KTVLELTV 9
Db      282 RVNLELTV 290

RESULT 41
US-08-800-825A-5
; Sequence 5, Application US/08800825A
; Patent No. 5866397
; GENERAL INFORMATION:
```

APPLICANT: RODAN, GIDEON A.  
APPLICANT: SCHMIDT, AZRIEL  
TITLE OF INVENTION: CDNA ENCODING A NOVEL HUMAN PROTEIN  
TITLE OF INVENTION: TYROSINE PHOSPHATASE  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: J. MARK HAND - MERCK & CO., INC.  
STREET: 126 E. LINCOLN AVE., P.O. BOX 2000  
CITY: RAHWAY  
STATE: NEW JERSEY  
COUNTRY: USA  
ZIP: 07065-0900  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/800,825A  
FILING DATE: 14-FEB-1997  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: HAND, J. MARK  
REGISTRATION NUMBER: 36,545  
REFERENCE/DOCKET NUMBER: 18992DA  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 732-594-3905  
TELEFAX: 732-594-4720  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1911 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-800-825A-5

Query Match 73.2%; Score 30; DB 1; Length 1911;  
Best Local Similarity 66.7%; Pred. No. 1.6e+03;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KTVLELTV 9  
Db 282 RNVLRLTV 290

RESULT 42  
US-09-158-657-5  
Sequence 5, Application US/09158657  
Patent No. 6214564  
GENERAL INFORMATION:  
APPLICANT: RODAN, GIDEON A.  
APPLICANT: SCHMIDT, AZRIEL  
TITLE OF INVENTION: CDNA ENCODING A NOVEL HUMAN PROTEIN  
TITLE OF INVENTION: TYROSINE PHOSPHATASE  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: J. MARK HAND - MERCK & CO., INC.  
STREET: 126 E. LINCOLN AVE., P.O. BOX 2000  
CITY: RAHWAY  
STATE: NEW JERSEY  
COUNTRY: USA  
ZIP: 07065-0900  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/158,657  
FILING DATE:

CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/800,825  
FILING DATE: 14-FEB-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: HAND, J. MARK  
REGISTRATION NUMBER: 36,545  
REFERENCE/DOCKET NUMBER: 18992DA  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 732-594-3905  
TELEFAX: 732-594-4720  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1911 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-158-657-5

Query Match 73.2%; Score 30; DB 2; Length 1911;  
Best Local Similarity 66.7%; Pred. No. 1.6e+03;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KTVLELTV 9  
Db 282 RNVLRLTV 290

RESULT 43  
PCT-US94-10166-5  
Sequence 5, Application PC/TUS9410166  
GENERAL INFORMATION:  
APPLICANT: RODAN, GIDEON A.  
APPLICANT: SCHMIDT, AZRIEL  
TITLE OF INVENTION: CDNA ENCODING A NOVEL HUMAN PROTEIN  
TITLE OF INVENTION: TYROSINE PHOSPHATASE  
NUMBER OF SEQUENCES: 6  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: JOHN W. WALLEN III  
STREET: P.O. BOX 2000, 126 E. LINCOLN AVE.  
CITY: RAHWAY  
STATE: NJ  
COUNTRY: USA  
ZIP: 07065  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US94/10166  
FILING DATE: 09-SEPT-1994  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/122,032  
FILING DATE: 14-SEP-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: WALLEN, JOHN W III  
REGISTRATION NUMBER: 35403  
REFERENCE/DOCKET NUMBER: 18992  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 908-594-3905  
TELEFAX: 908-594-4720  
TELEX: 138825  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1911 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein

PCT-US94-10166-5

Query Match 73.2%; Score 30; DB 4; Length 1911;  
Best Local Similarity 66.7%; Pred. No. 1.6e+03;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 KTVLELTV 9  
: |||:|  
Db 282 RNVLFTDV 290

RESULT 44  
US-09-513-999C-4219  
; Sequence 4219, Application US/09513999C  
; Patent No. 6783961  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.  
; APPLICANT: Duclet, A.Y.  
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.  
; Patent No. 6783961  
; FILE REFERENCE: 59, US2, REG  
; CURRENT APPLICATION NUMBER: US/09/513,999C  
; CURRENT FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/122,487  
; PRIOR FILING DATE: 1999-02-26  
; NUMBER OF SEQ ID NOS: 36681  
; SOFTWARE: Patent.pm  
; SEQ ID NO 4219  
; LENGTH: 62  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SIGNAL  
; LOCATION: -17..-1  
; OTHER INFORMATION: score 13  
; OTHER INFORMATION: seq IFLLCLAGRALA/AP  
US-09-513-999C-4219

Query Match 70.7%; Score 29; DB 2; Length 62;  
Best Local Similarity 66.7%; Pred. No. 63;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 KTVLELTV 9  
: |||:|  
Db 33 ETVAEVTV 41

RESULT 45  
US-09-513-999C-4220  
; Sequence 4220, Application US/09513999C  
; Patent No. 6783961  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.  
; APPLICANT: Duclet, A.  
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.  
; Patent No. 6783961  
; FILE REFERENCE: 59, US2, REG  
; CURRENT APPLICATION NUMBER: US/09/513,999C  
; CURRENT FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/122,487  
; PRIOR FILING DATE: 1999-02-26  
; NUMBER OF SEQ ID NOS: 36681  
; SOFTWARE: Patent.pm  
; SEQ ID NO 4220  
; LENGTH: 72  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SIGNAL  
; LOCATION: -17..-1  
; OTHER INFORMATION: score 13

; OTHER INFORMATION: seq IFLLCLAGRALA/AP  
US-09-513-999C-4220

Query Match 70.7%; Score 29; DB 2; Length 72;  
Best Local Similarity 66.7%; Pred. No. 74;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 KTVLELTV 9  
: |||:|  
Db 33 ETVAEVTV 41

RESULT 46  
US-09-902-540-11096  
; Sequence 11096, Application US/09902540  
; Patent No. 6833447  
; GENERAL INFORMATION:  
; APPLICANT: Goldman, Barry S.  
; APPLICANT: Hinkle, Gregory J.  
; APPLICANT: Slater, Steven C.  
; APPLICANT: Wiegand, Roger C.  
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof  
; FILE REFERENCE: 38-10(115849)B  
; CURRENT APPLICATION NUMBER: US/09/902,540  
; CURRENT FILING DATE: 2001-07-10  
; PRIOR APPLICATION NUMBER: 60/217,883  
; PRIOR FILING DATE: 2000-07-10  
; NUMBER OF SEQ ID NOS: 16825  
; SEQ ID NO 11096  
; LENGTH: 94  
; TYPE: PRT  
; ORGANISM: Myxococcus xanthus  
US-09-902-540-11096

Query Match 70.7%; Score 29; DB 2; Length 94;  
Best Local Similarity 55.6%; Pred. No. 98;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 KTVLELTV 9  
: |||:|  
Db 43 KTVLFTDV 51

RESULT 47  
US-09-248-796A-14182  
; Sequence 14182, Application US/09248796A  
; Patent No. 6747137  
; GENERAL INFORMATION:  
; APPLICANT: Keith Weinstock et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN  
; FILE REFERENCE: 107196.132  
; CURRENT APPLICATION NUMBER: US/09/248,796A  
; CURRENT FILING DATE: 1999-02-12  
; PRIOR APPLICATION NUMBER: US 60/074,725  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: US 60/096,409  
; PRIOR FILING DATE: 1998-08-13  
; NUMBER OF SEQ ID NOS: 28208  
; SEQ ID NO 14182  
; LENGTH: 121  
; TYPE: PRT  
; ORGANISM: Candida albicans  
US-09-248-796A-14182

Query Match 70.7%; Score 29; DB 2; Length 121;  
Best Local Similarity 75.0%; Pred. No. 1.3e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KTVLELTV 8  
: |||:|  
Db 85 KTVLELTV 92

RESULT 48  
US-09-513-999C-4218  
; Sequence 4218, Application US/09513999C  
; Patent No. 6783961  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.  
; APPLICANT: Duclert, A.  
; APPLICANT: Giordano, J.Y.  
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.  
; Patent No. 6783961  
; FILE REFERENCE: 59.US2.REG  
; CURRENT APPLICATION NUMBER: US/09/513, 999C  
; CURRENT FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/122,487  
; PRIOR FILING DATE: 1999-02-26  
; NUMBER OF SEQ ID NOS: 36681  
; SOFTWARE: Patent.pm  
; SEQ ID NO 4218  
; LENGTH: 124  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SIGNAL  
; LOCATION: -17..-1  
; OTHER INFORMATION: score 13  
; OTHER INFORMATION: seq IFFILCLAGRLA/AP  
US-09-513-999C-4218

Query Match 70.7%; Score 29; DB 2; Length 124;  
Best Local Similarity 66.7%; Pred. No. 1.3e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 KTVLELTV 9  
DB 33 ETVAEVTVEV 41

RESULT 49  
US-09-710-279-3086  
; Sequence 3086, Application US/09710279  
; Patent No. 6703492  
; GENERAL INFORMATION:  
; APPLICANT: KIMMERLY, WILLIAM JOHN  
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS  
; FILE REFERENCE: PU3480US  
; CURRENT APPLICATION NUMBER: US/09/710, 279  
; CURRENT FILING DATE: 2000-11-09  
; PRIOR APPLICATION NUMBER: 60/164,258  
; PRIOR FILING DATE: 1999-11-09  
; NUMBER OF SEQ ID NOS: 4472  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 3086  
; LENGTH: 131  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: synthetic  
; OTHER INFORMATION: amino acid sequence  
US-09-710-279-3086

Query Match 70.7%; Score 29; DB 2; Length 131;  
Best Local Similarity 55.6%; Pred. No. 1.4e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 KTVLELTV 9  
DB 97 KTVMDLMEI 105

RESULT 50  
US-09-513-999C-7844  
; Sequence 7844, Application US/09513999C

; Patent No. 6783961  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.  
; APPLICANT: Duclert, A.  
; APPLICANT: Giordano, J.Y.  
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.  
; Patent No. 6783961  
; FILE REFERENCE: 59.US2.REG  
; CURRENT APPLICATION NUMBER: US/09/513, 999C  
; CURRENT FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/122,487  
; PRIOR FILING DATE: 1999-02-26  
; NUMBER OF SEQ ID NOS: 36681  
; SOFTWARE: Patent.pm  
; SEQ ID NO 7844  
; LENGTH: 136  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SIGNAL  
; LOCATION: -24..-1  
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; OTHER INFORMATION: seq LLSGALLTETMA/XS  
; NAME/KEY: UNSURE  
; LOCATION: -15  
; OTHER INFORMATION: Xaa=Ile or Leu  
; FEATURE:  
; NAME/KEY: UNSURE  
; LOCATION: 1  
; OTHER INFORMATION: Xaa=Cys or Gly  
; FEATURE:  
; NAME/KEY: UNSURE  
; LOCATION: 9  
; OTHER INFORMATION: Xaa=Asp or Tyr  
; FEATURE:  
; NAME/KEY: UNSURE  
; LOCATION: 24  
; OTHER INFORMATION: Xaa=Ala or Ser  
; NAME/KEY: UNSURE  
; LOCATION: 45  
; OTHER INFORMATION: Xaa=Glu or Gly  
; FEATURE:  
; NAME/KEY: UNSURE  
; LOCATION: 52  
; OTHER INFORMATION: Xaa=Ile or Met or Val  
; FEATURE:  
; NAME/KEY: UNSURE  
; LOCATION: 63  
; OTHER INFORMATION: Xaa=Asp or Glu or Lys or Asn  
; FEATURE:  
; NAME/KEY: UNSURE  
; LOCATION: 89  
; OTHER INFORMATION: Xaa=Lys or Asn or Arg or Ser  
US-09-513-999C-7844

Query Match 70.7%; Score 29; DB 2; Length 136;  
Best Local Similarity 85.7%; Pred. No. 1.5e+02;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTV 7  
DB 102 KTVLELTV 108

Search completed: May 5, 2006, 02:25:34  
Job time : 25.8 secs



GenCore version 5.1.7  
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OM protein - protein search, using sw model

Run on: May 5, 2006, 07:44:45 ; Search time 55.9 Seconds  
(without alignments)  
67.271 Million cell updates/sec

Title: US-08-170-344-25

Perfect score: 41

Sequence: 1 KTVLETRV 9

Scoring table: BIOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 1000 summaries

Database : Published Applications\_AA\_Main:\*

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- 2: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBSCOMB.pep:\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBSCOMB.pep:\*
- 4: /cgn2\_6/ptodata/1/pubpaa/US10\_PUBSCOMB.pep:\*
- 5: /cgn2\_6/ptodata/1/pubpaa/US10\_PUBSCOMB.pep:\*
- 6: /cgn2\_6/ptodata/1/pubpaa/US11\_PUBSCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	41	100.0	42	5	US-10-751-845-152
3	41	100.0	119	5	US-10-751-845-159
4	41	100.0	158	5	US-10-800-023-27
5	41	100.0	158	6	US-11-021-949-28
6	41	100.0	172	4	US-10-472-724-6
7	41	100.0	236	5	US-10-751-845-157
8	41	100.0	237	5	US-10-751-845-158
9	41	100.0	261	5	US-10-751-845-160
10	41	100.0	278	4	US-10-000-903-21
11	41	100.0	278	5	US-10-899-771-21
12	41	100.0	383	4	US-10-000-903-23
13	41	100.0	383	5	US-10-899-771-23
14	41	100.0	74	4	US-10-236-392-88
15	33	80.5	86	4	US-10-282-122A-45170
16	33	80.5	128	4	US-10-425-115-340269
17	33	80.5	129	4	US-10-282-122A-76448
18	33	80.5	145	4	US-10-236-392-84
19	33	80.5	145	4	US-10-236-392-86
20	33	80.5	161	4	US-10-236-392-90
21	33	80.5	327	3	US-09-925-301-862
22	33	80.5	346	4	US-10-282-122A-71775
23	33	80.5	500	4	US-10-005-956-22
24	33	80.5	500	4	US-10-005-956-24
25	33	80.5	500	4	US-10-005-956-26
26	33	80.5	500	4	US-10-005-956-28
27	33	80.5	500	4	US-10-005-956-30

28	33	80.5	500	4	US-10-005-956-294	Sequence 294, App
29	33	80.5	500	5	US-10-989-891-145	Sequence 145, App
30	33	80.5	522	4	US-10-264-049-2645	Sequence 2645, Ap
31	33	80.5	778	4	US-10-424-599-183425	Sequence 183425, A
32	32	78.0	46	4	US-10-424-599-238328	Sequence 238328, A
33	32	78.0	267	4	US-10-425-115-186757	Sequence 186757, A
34	32	78.0	276	3	US-09-980-217-15	Sequence 15, Appl
35	32	78.0	398	3	US-09-864-761-37735	Sequence 37735, A
36	32	78.0	1046	3	US-10-369-493-3073	Sequence 3073, Ap
37	31	75.6	10	5	US-10-751-845-136	Sequence 136, App
38	31	75.6	52	3	US-09-764-869-1229	Sequence 1229, Ap
39	31	75.6	52	4	US-10-091-504-1229	Sequence 1229, Ap
40	31	75.6	52	4	US-10-227-577-1229	Sequence 1229, Ap
41	31	75.6	118	4	US-10-437-863-204256	Sequence 204256, A
42	31	75.6	291	4	US-10-043-487-360	Sequence 360, App
43	31	75.6	343	4	US-10-369-493-5584	Sequence 5584, Ap
44	31	75.6	388	4	US-10-424-599-177645	Sequence 177645, A
45	31	75.6	496	4	US-10-097-559-40	Sequence 40, Appl
46	31	75.6	496	5	US-10-732-923-1085	Sequence 1085, Ap
47	31	75.6	509	5	US-10-450-763-51933	Sequence 51933, A
48	31	75.6	538	4	US-10-094-749-2659	Sequence 2659, Ap
49	31	75.6	575	5	US-10-818-066-34	Sequence 34, Appl
50	31	75.6	693	5	US-10-504-582-152	Sequence 152, App
51	31	75.6	1093	4	US-10-282-122A-45269	Sequence 45269, A
52	30	73.2	86	4	US-10-437-963-199277	Sequence 199277, A
53	30	73.2	106	4	US-10-424-599-261312	Sequence 261312, A
54	30	73.2	114	5	US-10-732-923-7308	Sequence 7308, Ap
55	30	73.2	121	4	US-10-282-122A-67806	Sequence 67806, A
56	30	73.2	122	4	US-10-424-599-191724	Sequence 191724, A
57	30	73.2	169	4	US-10-424-599-237241	Sequence 237241, A
58	30	73.2	202	4	US-10-108-260A-4236	Sequence 4236, Ap
59	30	73.2	242	4	US-10-282-122A-52069	Sequence 52069, A
60	30	73.2	266	4	US-10-424-599-237242	Sequence 237242, A
61	30	73.2	307	5	US-10-470-048B-270	Sequence 270, App
62	30	73.2	315	4	US-10-724-972A-5080	Sequence 5080, Ap
63	30	73.2	317	4	US-10-282-122A-49101	Sequence 49101, A
64	30	73.2	324	4	US-10-112-706-1	Sequence 1, Appl
65	30	73.2	325	4	US-10-112-706-2	Sequence 2, Appl
66	30	73.2	329	4	US-10-112-706-3	Sequence 3, Appl
67	30	73.2	330	4	US-10-112-706-4	Sequence 4, Appl
68	30	73.2	376	5	US-10-739-930-0069	Sequence 9069, Ap
69	30	73.2	408	4	US-09-712-363-268	Sequence 268, App
70	30	73.2	408	4	US-10-282-122A-61773	Sequence 61773, A
71	30	73.2	408	4	US-10-282-122A-62778	Sequence 62778, A
72	30	73.2	408	4	US-10-282-122A-64856	Sequence 64856, A
73	30	73.2	493	6	US-11-097-143-12564	Sequence 12564, A
74	30	73.2	497	4	US-10-282-122A-54774	Sequence 54774, A
75	30	73.2	519	4	US-10-289-762-561	Sequence 561, App
76	30	73.2	561	4	US-09-827-040-5	Sequence 5, Appl
77	30	73.2	637	6	US-11-097-143-12783	Sequence 12783, A
78	30	73.2	673	4	US-10-176-306-2	Sequence 2, Appl
79	30	73.2	673	4	US-10-968-812-2	Sequence 2, Appl
80	30	73.2	743	5	US-10-789-247-8	Sequence 8, Appl
81	30	73.2	1130	4	US-10-806-038-31	Sequence 31, Appl
82	30	73.2	1233	4	US-10-369-493-1642	Sequence 3642, Ap
83	30	73.2	1294	5	US-10-732-923-17000	Sequence 17000, Ap
84	30	73.2	1351	4	US-10-437-963-121746	Sequence 121746, A
85	30	73.2	1495	4	US-10-258-666-12	Sequence 12, Appl
86	30	73.2	1502	3	US-09-808-602-54	Sequence 54, Appl
87	30	73.2	1681	3	US-09-800-198-44	Sequence 44, Appl
88	30	73.2	1681	3	US-09-920-653-3	Sequence 3, Appl
89	30	73.2	1681	4	US-10-429-679-3	Sequence 3, Appl
90	30	73.2	1681	4	US-10-429-681-3	Sequence 3, Appl
91	30	73.2	1948	3	US-09-808-602-55	Sequence 55, Appl
92	30	73.2	1948	3	US-09-800-198-45	Sequence 45, Appl
93	29	70.7	25	3	US-09-965-536A-21	Sequence 21, Appl
94	29	70.7	25	5	US-10-994-987-28	Sequence 28, Appl
95	29	70.7	61	4	US-10-424-599-247031	Sequence 247031, A
96	29	70.7	107	3	US-09-930-312-2	Sequence 2, Appl
97	29	70.7	110	4	US-10-424-599-279778	Sequence 279778, A
98	29	70.7	110	4	US-10-437-963-160705	Sequence 160705, A
99	29	70.7	123	4	US-10-389-566-1337	Sequence 1337, Ap
100	29	70.7	135	5	US-10-732-923-10970	Sequence 10970, A















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977 26 63.4 296 4 US-10-206-576-152 Sequence 152, App
978 26 63.4 296 5 US-10-912-362-152 Sequence 152, App
979 26 63.4 296 5 US-10-450-763-35314 Sequence 35314, A
980 26 63.4 301 4 US-10-424-599-268067 Sequence 268067, A
981 26 63.4 302 4 US-10-767-701-44752 Sequence 44752, A
982 26 63.4 304 4 US-10-282-122A-47895 Sequence 47895, A
983 26 63.4 305 4 US-10-424-599-256582 Sequence 256582, A
984 26 63.4 305 4 US-10-424-599-259349 Sequence 259349, A
985 26 63.4 305 4 US-10-424-599-282805 Sequence 282805, A
986 26 63.4 306 4 US-10-369-493-9676 Sequence 9676, Ap
987 26 63.4 307 5 US-10-774-355A-2277 Sequence 2277, Ap
988 26 63.4 308 4 US-10-369-493-23066 Sequence 23066, A
989 26 63.4 308 4 US-10-282-122A-61302 Sequence 61302, A
990 26 63.4 308 5 US-10-282-122A-76833 Sequence 76833, A
991 26 63.4 308 5 US-10-450-763-38481 Sequence 38481, A
992 26 63.4 310 4 US-10-282-122A-51735 Sequence 51735, A
993 26 63.4 311 4 US-10-425-115-240340 Sequence 240340, A
994 26 63.4 311 4 US-10-437-963-183563 Sequence 183563, A
995 26 63.4 312 4 US-10-306-762-25 Sequence 25, Appl
996 26 63.4 312 4 US-10-424-599-201944 Sequence 201944, A
997 26 63.4 312 4 US-10-425-114-46269 Sequence 46269, A
998 26 63.4 313 4 US-10-282-122A-50247 Sequence 50247, A
999 26 63.4 313 4 US-10-437-963-163411 Sequence 163411, A
1000 26 63.4 313 4 US-10-770-127-33 Sequence 33, Appl
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## ALIGNMENTS

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RESULT 1
US-10-751-845-132
; Sequence 132, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 132
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-132

Query Match 100.0%; Score 41; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 152
; LENGTH: 42
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-152

Query Match 100.0%; Score 41; DB 5; Length 42;
Best Local Similarity 100.0%; Pred. No. 0.74;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 3
US-10-751-845-159
; Sequence 159, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 159
; LENGTH: 119
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-159

Query Match 100.0%; Score 41; DB 5; Length 119;
Best Local Similarity 100.0%; Pred. No. 2.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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; TITLE OF INVENTION: of the Immune Response Therefrom
; FILE REFERENCE: 600-1-081CONCIP1
; CURRENT APPLICATION NUMBER: US/10/800,023
; CURRENT FILING DATE: 2004-03-14
; PRIOR APPLICATION NUMBER: 09/925,284
; PRIOR FILING DATE: 2001-08-09/586,704
; PRIOR APPLICATION NUMBER: 09/586,704
; PRIOR FILING DATE: 2000-06-05
; PRIOR APPLICATION NUMBER: PCT/US96/01383
; PRIOR FILING DATE: 1996-01-31
; PRIOR APPLICATION NUMBER: 08/381,528
; PRIOR FILING DATE: 1995-01-31
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus E6 protein
US-10-800-023-27
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Best Local Similarity 100.0%; Pred. No. 3.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 KTVLELTV 9
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Db 36 KTVLELTV 44
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RESULT 5
US-11-021-949-28
; Sequence 28, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOWOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 28
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-28

Query Match          100.0%; Score 41; DB 6; Length 158;
Best Local Similarity 100.0%; Pred. No. 3.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KTVLELTV 9
    |||||
Db 36 KTVLELTV 44

RESULT 6
US-10-472-724-6
; Sequence 6, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Cid-Arregui, Angel
; APPLICANT: Zair Hausen, Harald
; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
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; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 6
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-6
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Query Match          100.0%; Score 41; DB 4; Length 172;
Best Local Similarity 100.0%; Pred. No. 3.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 KTVLELTV 9
    |||||
Db 42 KTVLELTV 50
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RESULT 7
US-10-751-845-157
; Sequence 157, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chiciz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 157
; LENGTH: 236
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-157
```

```
Query Match          100.0%; Score 41; DB 5; Length 236;
Best Local Similarity 100.0%; Pred. No. 5.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 KTVLELTV 9
    |||||
Db 145 KTVLELTV 153
```

```
RESULT 8
US-10-751-845-158
; Sequence 158, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chiciz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
```

PRIOR APPLICATION NUMBER: US/09/664,225  
PRIOR FILING DATE: 2000-08-18  
PRIOR APPLICATION NUMBER: US 60/169,846  
PRIOR FILING DATE: 1999-12-09  
PRIOR APPLICATION NUMBER: US 60/154,665  
PRIOR FILING DATE: 1999-09-16  
NUMBER OF SEQ ID NOS: 163  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 158  
LENGTH: 237  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Artificial fusion sequence  
US-10-751-845-158

Query Match 100.0%; Score 41; DB 5; Length 237;  
Best Local Similarity 100.0%; Pred. No. 5.1;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTV 9  
Db 146 KTVLELTV 154

RESULT 9  
US-10-751-845-160  
Sequence 160, Application US/10751845  
Publication No. US20050100928A1  
GENERAL INFORMATION:  
APPLICANT: Hedley, Mary Lynne  
APPLICANT: Urban, Robert G.  
APPLICANT: Chicz, Roman M.  
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES  
FILE REFERENCE: 08191-013001  
CURRENT FILING DATE: 2004-01-05  
PRIOR APPLICATION NUMBER: US/10/751,845  
PRIOR FILING DATE: 2004-01-05  
PRIOR APPLICATION NUMBER: US/09/664,225  
PRIOR FILING DATE: 2000-08-18  
PRIOR APPLICATION NUMBER: US 60/169,846  
PRIOR FILING DATE: 1999-12-09  
PRIOR APPLICATION NUMBER: US 60/154,665  
PRIOR FILING DATE: 1999-09-16  
NUMBER OF SEQ ID NOS: 163  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 160  
LENGTH: 261  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Artificial fusion sequence  
US-10-751-845-160

Query Match 100.0%; Score 41; DB 5; Length 261;  
Best Local Similarity 100.0%; Pred. No. 5.7;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTV 9  
Db 170 KTVLELTV 178

RESULT 10  
US-10-000-903-21  
Sequence 21, Application US/10000903  
Publication No. US20020182221A1  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabazon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Fernande  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela  
TITLE OF INVENTION: Vaccine

FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/10/000,903  
CURRENT FILING DATE: 2001-10-01  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 21  
LENGTH: 278  
TYPE: PRT  
ORGANISM: Homo sapien  
US-10-000-903-21

Query Match 100.0%; Score 41; DB 4; Length 278;  
Best Local Similarity 100.0%; Pred. No. 6.1;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTV 9  
Db 147 KTVLELTV 155

RESULT 11  
US-10-899-771-21  
Sequence 21, Application US/10899771  
Publication No. US20050031638A1  
GENERAL INFORMATION:  
APPLICANT: Dalemans, Wilfried L.J.  
APPLICANT: Gerard, Catherine Marie Ghislaine  
TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins  
TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide  
FILE REFERENCE: B45124  
CURRENT APPLICATION NUMBER: US/10/899,771  
CURRENT FILING DATE: 2004-07-27  
PRIOR APPLICATION NUMBER: US/09/581,976  
PRIOR FILING DATE: 2000-06-20  
PRIOR APPLICATION NUMBER: PCT/EP98/08563  
PRIOR FILING DATE: 1998-12-18  
PRIOR APPLICATION NUMBER: GB 9727262.9  
PRIOR FILING DATE: 1997-12-24  
NUMBER OF SEQ ID NOS: 28  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 21  
LENGTH: 278  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Chimeric protein (protein D from Haemophilus  
OTHER INFORMATION: Influenzae B and B6 from Human papilloma virus type  
US-10-899-771-21

Query Match 100.0%; Score 41; DB 5; Length 278;  
Best Local Similarity 100.0%; Pred. No. 6.1;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTV 9  
Db 147 KTVLELTV 155

RESULT 12  
US-10-000-903-23  
Sequence 23, Application US/10000903  
Publication No. US20020182221A1  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabazon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Fernande  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela

```

; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17 9719953.5
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-23

Query Match      100.0%; Score 41; DB 4; Length 383;
Best Local Similarity 100.0%; Pred. No. 8.8; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;

Qy      1 KTVLELTV 9
        |||||
Db      147 KTVLELTV 155

RESULT 13
US-10-899-771-23
; Sequence 23, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuncted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (protein D from Haemophilus
; OTHER INFORMATION: Influenzae B and E6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 18)
US-10-899-771-23

Query Match      100.0%; Score 41; DB 5; Length 383;
Best Local Similarity 100.0%; Pred. No. 8.8; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;

Qy      1 KTVLELTV 9
        |||||
Db      147 KTVLELTV 155

RESULT 14
US-10-236-392-88
; Sequence 88, Application US/10236392
; Publication No. US20040067490A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, David W
; APPLICANT: Boldog, Ferenc L
; APPLICANT: Burgees, Catherine, E
; APPLICANT: Casman, Stacie J
```

```

; APPLICANT: Catterton, Elina
; APPLICANT: Chapoval, Andrei
; APPLICANT: Crabtree, Julie
; APPLICANT: Edinger, Shlomit, R
; APPLICANT: Ellerman, Karen
; APPLICANT: Gerlach, Valerie
; APPLICANT: Gorman, Linda
; APPLICANT: Grose, William M
; APPLICANT: Gusev, Vladimir
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Laroche, William J
; APPLICANT: Li, Li
; APPLICANT: Macdougall, John R
; APPLICANT: Mahankar, Uriel M
; APPLICANT: Miller, Charles E
; APPLICANT: Millet, Isabelle
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Patturajan, Meera
; APPLICANT: Pena, Carol A
; APPLICANT: Peyman, John A
; APPLICANT: Raetelli, Luca
; APPLICANT: Reiser, Daniel K
; APPLICANT: Rothenberg, Mark E
; APPLICANT: Shenoy, Suresh
; APPLICANT: Shinkets, Richard A
; APPLICANT: Smithson, Glenda
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-442A
; CURRENT APPLICATION NUMBER: US/10/236,392
; CURRENT FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: US09/540,763
; PRIOR FILING DATE: 2000-03-30
; PRIOR APPLICATION NUMBER: US60/390,155
; PRIOR FILING DATE: 2002-06-19
; PRIOR APPLICATION NUMBER: US09/635,949
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: US60/318,765
; PRIOR FILING DATE: 2001-09-12
; PRIOR APPLICATION NUMBER: US60/357,303
; PRIOR FILING DATE: 2002-02-15
; PRIOR APPLICATION NUMBER: US60/367,753
; PRIOR FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER: US60/369,479
; PRIOR FILING DATE: 2002-04-02
; PRIOR APPLICATION NUMBER: US09/659,634
; PRIOR FILING DATE: 2000-09-12
; PRIOR APPLICATION NUMBER: US60/318,120
; PRIOR FILING DATE: 2001-09-07
; PRIOR APPLICATION NUMBER: US60/318,130
; PRIOR FILING DATE: 2001-09-07
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 794
; SOFTWARE: Custom
; SEQ ID NO 88
; LENGTH: 74
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-236-392-88

Query Match      80.5%; Score 33; DB 4; Length 74;
Best Local Similarity 87.5%; Pred. No. 56; Mismatches 0; Indels 0; Gaps 0;
Matches 7; Conservative 1;

Qy      1 KTVLELTV 8
        :|||
Db      17 QTVLELTV 24

RESULT 15
US-10-282-122A-45170
; Sequence 45170, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
```

```

; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Karl
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 45170
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
US-10-282-122A-45170

Query Match      80.5%; Score 33; DB 4; Length 86;
Best Local Similarity 77.8%; Pred. No. 66;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 KTYVLETEV 9
Db      15 KTYVLETEL 23

RESULT 16
US-10-425-115-340269
; Sequence 340269, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yina
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21 (53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; PRIOR FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 340269
; LENGTH: 128
; TYPE: PRT
; ORGANISM: Zea mays
```

```

; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_73495C.1.pep
US-10-425-115-340269

Query Match      80.5%; Score 33; DB 4; Length 128;
Best Local Similarity 87.5%; Pred. No. 16+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 KTYVLETE 8
Db      100 QTYVLETEL 107

RESULT 17
US-10-282-122A-76448
; Sequence 76448, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Karl
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 76448
; LENGTH: 129
; TYPE: PRT
; ORGANISM: Treponema pallidum
US-10-282-122A-76448

Query Match      80.5%; Score 33; DB 4; Length 129;
Best Local Similarity 66.7%; Pred. No. 16+02;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1 KTYVLETEV 9
Db      16 KTYVLESEL 24

RESULT 18
```

US-10-236-392-84  
; Sequence 84, Application US/10236392  
; Publication No. US20040067490A1  
; GENERAL INFORMATION:  
; APPLICANT: Anderson, David W  
; APPLICANT: Boldog, Ferenc L  
; APPLICANT: Burgess, Catherine, E  
; APPLICANT: Casman, Stacie J  
; APPLICANT: Catterton, Elina  
; APPLICANT: Chapoval, Andrei  
; APPLICANT: Crabtree, Julie  
; APPLICANT: Edinger, Shlomit, R  
; APPLICANT: Ellerman, Karen  
; APPLICANT: Gerlach, Valerie  
; APPLICANT: Gorman, Linda  
; APPLICANT: Grose, William M  
; APPLICANT: Gusev, Vladamir  
; APPLICANT: Kekuda, Ramesh  
; APPLICANT: Larochele, William J  
; APPLICANT: Li, Li  
; APPLICANT: MacDougall, John R  
; APPLICANT: Maityankar, Utiel M  
; APPLICANT: Miller, Charles E  
; APPLICANT: Miller, Isabelle  
; APPLICANT: Padigaru, Muralidhara  
; APPLICANT: Paturajan, Meera  
; APPLICANT: Pena, Carol A  
; APPLICANT: Peyman, John A  
; APPLICANT: Rastelli, Luca  
; APPLICANT: Reiger, Daniel K  
; APPLICANT: Rothenberg, Mark E  
; APPLICANT: Shenoy, Suresh  
; APPLICANT: Shinkets, Richard A  
; APPLICANT: Smithson, Glenda  
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME  
; FILE REFERENCE: 21402-442A  
; CURRENT APPLICATION NUMBER: US/10/236,392  
; PRIOR FILING DATE: 2002-09-06  
; PRIOR APPLICATION NUMBER: US09/540,763  
; PRIOR FILING DATE: 2000-03-30  
; PRIOR APPLICATION NUMBER: US60/390,155  
; PRIOR FILING DATE: 2002-06-19  
; PRIOR APPLICATION NUMBER: US09/635,949  
; PRIOR FILING DATE: 2000-08-10  
; PRIOR APPLICATION NUMBER: US60/318,765  
; PRIOR FILING DATE: 2001-09-12  
; PRIOR APPLICATION NUMBER: US60/357,303  
; PRIOR FILING DATE: 2002-02-15  
; PRIOR APPLICATION NUMBER: US60/367,753  
; PRIOR FILING DATE: 2002-03-25  
; PRIOR APPLICATION NUMBER: US60/369,479  
; PRIOR FILING DATE: 2002-04-02  
; PRIOR APPLICATION NUMBER: US09/659,634  
; PRIOR FILING DATE: 2000-09-12  
; PRIOR APPLICATION NUMBER: US60/318,120  
; PRIOR FILING DATE: 2001-09-07  
; PRIOR APPLICATION NUMBER: US60/318,130  
; PRIOR FILING DATE: 2001-09-07  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 794  
; SOFTWARE: Custom  
; SEQ ID NO 84  
; LENGTH: 145  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-236-392-84

Query Match 80.5%; Score 33; DB 4; Length 145;  
Best Local Similarity 87.5%; Pred. No. 1.2e+02;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

1 KTVLELTE 8  
:|||||

Db 89 QTVLELTE 96

## RESULT 19

US-10-236-392-86

; Sequence 86, Application US/10236392  
; Publication No. US20040067490A1

## ; GENERAL INFORMATION:

; APPLICANT: Anderson, David W  
; APPLICANT: Boldog, Ferenc L  
; APPLICANT: Burgess, Catherine, E  
; APPLICANT: Casman, Stacie J  
; APPLICANT: Catterton, Elina  
; APPLICANT: Chapoval, Andrei  
; APPLICANT: Crabtree, Julie  
; APPLICANT: Edinger, Shlomit, R  
; APPLICANT: Ellerman, Karen  
; APPLICANT: Gerlach, Valerie  
; APPLICANT: Gorman, Linda  
; APPLICANT: Grose, William M  
; APPLICANT: Gusev, Vladamir  
; APPLICANT: Kekuda, Ramesh  
; APPLICANT: Larochele, William J  
; APPLICANT: Li, Li  
; APPLICANT: MacDougall, John R  
; APPLICANT: Maityankar, Utiel M  
; APPLICANT: Miller, Charles E  
; APPLICANT: Miller, Isabelle  
; APPLICANT: Padigaru, Muralidhara  
; APPLICANT: Paturajan, Meera  
; APPLICANT: Pena, Carol A  
; APPLICANT: Peyman, John A  
; APPLICANT: Rastelli, Luca  
; APPLICANT: Reiger, Daniel K  
; APPLICANT: Rothenberg, Mark E  
; APPLICANT: Shenoy, Suresh  
; APPLICANT: Shinkets, Richard A  
; APPLICANT: Smithson, Glenda  
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME  
; FILE REFERENCE: 21402-442A  
; CURRENT APPLICATION NUMBER: US/10/236,392  
; PRIOR FILING DATE: 2002-09-06  
; PRIOR APPLICATION NUMBER: US09/540,763  
; PRIOR FILING DATE: 2000-03-30  
; PRIOR APPLICATION NUMBER: US60/390,155  
; PRIOR FILING DATE: 2002-06-19  
; PRIOR APPLICATION NUMBER: US09/635,949  
; PRIOR FILING DATE: 2000-08-10  
; PRIOR APPLICATION NUMBER: US60/318,765  
; PRIOR FILING DATE: 2001-09-12  
; PRIOR APPLICATION NUMBER: US60/357,303  
; PRIOR FILING DATE: 2002-02-15  
; PRIOR APPLICATION NUMBER: US60/367,753  
; PRIOR FILING DATE: 2002-03-25  
; PRIOR APPLICATION NUMBER: US60/369,479  
; PRIOR FILING DATE: 2002-04-02  
; PRIOR APPLICATION NUMBER: US09/659,634  
; PRIOR FILING DATE: 2000-09-12  
; PRIOR APPLICATION NUMBER: US60/318,120  
; PRIOR FILING DATE: 2001-09-07  
; PRIOR APPLICATION NUMBER: US60/318,130  
; PRIOR FILING DATE: 2001-09-07  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 794  
; SOFTWARE: Custom  
; SEQ ID NO 86  
; LENGTH: 145  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-236-392-86

Query Match 80.5%; Score 33; DB 4; Length 145;  
Best Local Similarity 87.5%; Pred. No. 1.2e+02;

Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Oy 1 KTVLELTE 8  
Db 86 QTVLELTE 93

RESULT 20  
US-10-236-392-90

; Sequence 90, Application US/10236392  
; Publication No. US20040067490A1  
; GENERAL INFORMATION:  
; APPLICANT: Anderson, David W  
; APPLICANT: Boldog, Ferenc L  
; APPLICANT: Burgess, Catherine, E  
; APPLICANT: Casman, Scacie J  
; APPLICANT: Catterton, Elina  
; APPLICANT: Chapoval, Andrei  
; APPLICANT: Crabtree, Julie  
; APPLICANT: Edinger, Shlomit, R  
; APPLICANT: Ellerman, Karen  
; APPLICANT: Gerlach, Valerie  
; APPLICANT: Gorman, Linda  
; APPLICANT: Grose, William M  
; APPLICANT: Gusev, Vladimir  
; APPLICANT: Kekuda, Rameesh  
; APPLICANT: Larochelle, William J  
; APPLICANT: Li, Li  
; APPLICANT: MacDougall, John R  
; APPLICANT: Malysankar, Uriel M  
; APPLICANT: Miller, Charles E  
; APPLICANT: Miller, Isabelle  
; APPLICANT: Padigaru, Muralidhara  
; APPLICANT: Patutajan, Meera  
; APPLICANT: Pena, Carol A  
; APPLICANT: Peyman, John A  
; APPLICANT: Rastelli, Luca  
; APPLICANT: Reiger, Daniel K  
; APPLICANT: Rothenberg, Mark E  
; APPLICANT: Shenoy, Suresh  
; APPLICANT: Shmukets, Richard A  
; APPLICANT: Smithson, Glenda  
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME  
; FILE REFERENCE: 21402-442A  
; CURRENT APPLICATION NUMBER: US/10/236,392  
; CURRENT FILING DATE: 2002-09-06  
; PRIOR APPLICATION NUMBER: US09/540,763  
; PRIOR FILING DATE: 2000-03-30  
; PRIOR APPLICATION NUMBER: US60/390,155  
; PRIOR FILING DATE: 2002-06-19  
; PRIOR APPLICATION NUMBER: US09/635,949  
; PRIOR FILING DATE: 2000-08-10  
; PRIOR APPLICATION NUMBER: US60/318,765  
; PRIOR FILING DATE: 2001-09-12  
; PRIOR APPLICATION NUMBER: US60/357,303  
; PRIOR FILING DATE: 2002-02-15  
; PRIOR APPLICATION NUMBER: US60/367,753  
; PRIOR FILING DATE: 2002-03-25  
; PRIOR APPLICATION NUMBER: US60/369,479  
; PRIOR FILING DATE: 2002-04-02  
; PRIOR APPLICATION NUMBER: US09/659,634  
; PRIOR FILING DATE: 2000-09-12  
; PRIOR APPLICATION NUMBER: US60/318,120  
; PRIOR FILING DATE: 2001-09-07  
; PRIOR APPLICATION NUMBER: US60/318,130  
; PRIOR FILING DATE: 2001-09-07  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 794  
; SOFTWARE: Custom  
; SEQ ID NO 90  
; LENGTH: 161  
; TYPE: PRT  
; ORGANISM: Homo sapiens

US-10-236-392-90

Query Match 80.5%; Score 33; DB 4; Length 161;  
Best Local Similarity 87.5%; Pred. No. 1.3e+02;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Oy 1 KTVLELTE 8  
Db 105 QTVLELTE 112

RESULT 21  
US-09-925-301-862

; Sequence 862, Application US/09925301  
; Patent No. US20020052308A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
; FILE REFERENCE: PA106  
; CURRENT APPLICATION NUMBER: US/09/925,301  
; CURRENT FILING DATE: 2001-08-10  
; PRIOR APPLICATION NUMBER: PCT/US00/05882  
; PRIOR FILING DATE: 2000-03-08  
; PRIOR APPLICATION NUMBER: 60/124,270  
; PRIOR FILING DATE: 1999-03-12  
; NUMBER OF SEQ ID NOS: 1694  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 862  
; LENGTH: 327  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (307)  
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
US-09-925-301-862

Query Match 80.5%; Score 33; DB 3; Length 327;  
Best Local Similarity 87.5%; Pred. No. 2.9e+02;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Oy 1 KTVLELTE 8  
Db 271 QTVLELTE 278

RESULT 22  
US-10-282-122A-71775

; Sequence 71775, Application US/10282122A  
; Publication No. US20040029129A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Liangsu  
; APPLICANT: Zamudio, Carlos  
; APPLICANT: Malone, Cheryl  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Kari  
; APPLICANT: Zykkind, Judith  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John  
; APPLICANT: Carr, Grant  
; APPLICANT: Yamamoto, Robert  
; APPLICANT: Forsyth, R.  
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
; FILE REFERENCE: ELITRA.034A  
; CURRENT APPLICATION NUMBER: US/10/282,122A  
; CURRENT FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: 60/191,078  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: 60/206,848  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 60/207,727  
; PRIOR FILING DATE: 2000-05-26

```

; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See file Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 71775
; LENGTH: 346
; TYPE: PRT
; ORGANISM: Staphylococcus haemolyticus
US-10-282-122A-71775
```

```
Query Match      80.5%; Score 33; DB 4; Length 346;
Best Local Similarity 66.7%; Pred. No. 3.1e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      1 KTVLELTV 9
       ||:|||||
DB      8 KTKELTEI 16
```

```
RESULT 23
US-10-005-956-22
; Sequence 22, Application US/10005956
; Publication No. US20030113726A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS
; FILE REFERENCE: D0053NP
; CURRENT APPLICATION NUMBER: US/10/005,956
; CURRENT FILING DATE: 2001-12-03
; PRIOR APPLICATION NUMBER: 60/251,015
; PRIOR FILING DATE: 2000-12-04
; PRIOR APPLICATION NUMBER: 60/263,678
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: 60/273,037
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 1579
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 22
; LENGTH: 500
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-005-956-22
```

```
Query Match      80.5%; Score 33; DB 4; Length 500;
Best Local Similarity 87.5%; Pred. No. 4.7e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 KTVLELTV 8
       :|||||
DB      444 QTVLELTV 451
```

```
RESULT 24
US-10-005-956-24
; Sequence 24, Application US/10005956
; Publication No. US20030113726A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS
; FILE REFERENCE: D0053NP
```

```

; CURRENT APPLICATION NUMBER: US/10/005,956
; CURRENT FILING DATE: 2001-12-03
; PRIOR APPLICATION NUMBER: 60/251,015
; PRIOR FILING DATE: 2000-12-04
; PRIOR APPLICATION NUMBER: 60/263,678
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: 60/273,037
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 1579
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 24
; LENGTH: 500
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-005-956-24
```

```
Query Match      80.5%; Score 33; DB 4; Length 500;
Best Local Similarity 87.5%; Pred. No. 4.7e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 KTVLELTV 8
       :|||||
DB      444 QTVLELTV 451
```

```
RESULT 25
US-10-005-956-26
; Sequence 26, Application US/10005956
; Publication No. US20030113726A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS
; FILE REFERENCE: D0053NP
; CURRENT APPLICATION NUMBER: US/10/005,956
; CURRENT FILING DATE: 2001-12-03
; PRIOR APPLICATION NUMBER: 60/251,015
; PRIOR FILING DATE: 2000-12-04
; PRIOR APPLICATION NUMBER: 60/263,678
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: 60/273,037
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 1579
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 26
; LENGTH: 500
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-005-956-26
```

```
Query Match      80.5%; Score 33; DB 4; Length 500;
Best Local Similarity 87.5%; Pred. No. 4.7e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 KTVLELTV 8
       :|||||
DB      444 QTVLELTV 451
```

```
RESULT 26
US-10-005-956-28
; Sequence 28, Application US/10005956
; Publication No. US20030113726A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS
; FILE REFERENCE: D0053NP
; CURRENT APPLICATION NUMBER: US/10/005,956
; CURRENT FILING DATE: 2001-12-03
; PRIOR APPLICATION NUMBER: 60/251,015
; PRIOR FILING DATE: 2000-12-04
; PRIOR APPLICATION NUMBER: 60/263,678
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: 60/273,037
```

;; PRIOR FILING DATE: 2001-03-02  
;; NUMBER OF SEQ ID NOS: 1579  
;; SOFTWARE: Patentin version 3.0  
;; SEQ ID NO 28  
;; LENGTH: 500  
;; TYPE: PRT  
;; ORGANISM: homo sapiens  
US-10-005-956-28

Query Match 80.5%; Score 33; DB 4; Length 500;  
Best Local Similarity 87.5%; Pred. No. 4.7e+02;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTE 8  
Db 444 QTVLELTE 451

RESULT 27  
US-10-005-956-30

;; Sequence 30, Application US/10005956  
;; Publication No. US20030113726A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Bristol-Myers Squibb Company  
;; TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS  
;; FILE REFERENCE: D0053NP  
;; CURRENT APPLICATION NUMBER: US/10/005,956  
;; CURRENT FILING DATE: 2001-12-03  
;; PRIOR APPLICATION NUMBER: 60/251,015  
;; PRIOR FILING DATE: 2000-12-04  
;; PRIOR APPLICATION NUMBER: 60/263,678  
;; PRIOR FILING DATE: 2001-01-23  
;; PRIOR APPLICATION NUMBER: 60/273,037  
;; PRIOR FILING DATE: 2001-03-02  
;; NUMBER OF SEQ ID NOS: 1579  
;; SOFTWARE: Patentin version 3.0  
;; SEQ ID NO 30  
;; LENGTH: 500  
;; TYPE: PRT  
;; ORGANISM: homo sapiens  
US-10-005-956-30

Query Match 80.5%; Score 33; DB 4; Length 500;  
Best Local Similarity 87.5%; Pred. No. 4.7e+02;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTE 8  
Db 444 QTVLELTE 451

RESULT 28  
US-10-005-956-294

;; Sequence 294, Application US/10005956  
;; Publication No. US20030113726A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Bristol-Myers Squibb Company  
;; TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS  
;; FILE REFERENCE: D0053NP  
;; CURRENT APPLICATION NUMBER: US/10/005,956  
;; CURRENT FILING DATE: 2001-12-03  
;; PRIOR APPLICATION NUMBER: 60/251,015  
;; PRIOR FILING DATE: 2000-12-04  
;; PRIOR APPLICATION NUMBER: 60/263,678  
;; PRIOR FILING DATE: 2001-01-23  
;; PRIOR APPLICATION NUMBER: 60/273,037  
;; PRIOR FILING DATE: 2001-03-02  
;; NUMBER OF SEQ ID NOS: 1579  
;; SOFTWARE: Patentin version 3.0  
;; SEQ ID NO 294  
;; LENGTH: 500  
;; TYPE: PRT  
;; ORGANISM: homo sapiens

;; FEATURE:  
;; NAME/KEY: VARIANT  
;; LOCATION: (56)..(56)  
;; OTHER INFORMATION: wherein Xaa is either "Val" or "Ala".  
;; NAME/KEY: VARIANT  
;; LOCATION: (159)..(159)  
;; OTHER INFORMATION: wherein Xaa is either "Ala" or "Gly".  
;; NAME/KEY: VARIANT  
;; LOCATION: (480)..(480)  
;; OTHER INFORMATION: wherein Xaa is either "Val" or "Met".  
US-10-005-956-294

Query Match 80.5%; Score 33; DB 4; Length 500;  
Best Local Similarity 87.5%; Pred. No. 4.7e+02;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTE 8  
Db 444 QTVLELTE 451

RESULT 29

;; Sequence 145, Application US/10989891  
;; Publication No. US2005022027A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Chiang, Lillian W.  
;; APPLICANT: Levin, Margaret  
;; TITLE OF INVENTION: PAIN-RELATED NUCLEIC ACID MOLECULES DERIVED FROM SPINAL NERVE  
;; TITLE OF INVENTION: LIGATION MODEL OF NEUROPATHIC PAIN-SECRETED PROTEINS AND LIGANDS  
;; FILE REFERENCE: 02755/100M94-US1  
;; CURRENT APPLICATION NUMBER: US/10/989,891  
;; CURRENT FILING DATE: 2004-11-12  
;; PRIOR APPLICATION NUMBER: PCT/US04/23166  
;; PRIOR FILING DATE: 2004-07-06  
;; PRIOR APPLICATION NUMBER: 60/485,101  
;; PRIOR FILING DATE: 2003-07-03  
;; NUMBER OF SEQ ID NOS: 168  
;; SOFTWARE: Patentin version 3.2  
;; SEQ ID NO 145  
;; LENGTH: 500  
;; TYPE: PRT  
;; ORGANISM: Homo sapiens  
US-10-989-891-145

Query Match 80.5%; Score 33; DB 5; Length 500;  
Best Local Similarity 87.5%; Pred. No. 4.7e+02;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTE 8  
Db 444 QTVLELTE 451

RESULT 30  
US-10-264-049-2645

;; Sequence 2645, Application US/10264049  
;; Publication No. US20040005579A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Birse et al.  
;; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
;; FILE REFERENCE: PA133P1  
;; CURRENT APPLICATION NUMBER: US/10/264,049  
;; CURRENT FILING DATE: 2002-10-04  
;; PRIOR APPLICATION NUMBER: PCT/US01/18569  
;; PRIOR FILING DATE: 2001-06-07  
;; PRIOR APPLICATION NUMBER: US 60/209,467  
;; PRIOR FILING DATE: 2000-06-07  
;; NUMBER OF SEQ ID NOS: 4360  
;; SOFTWARE: Patentin Ver. 3.1  
;; SEQ ID NO 2645  
;; LENGTH: 522  
;; TYPE: PRT



ORGANISM: Homo sapiens  
US-10-264-049-2645

Query Match 80.5%; Score 33; DB 4; Length 522;  
Best Local Similarity 87.5%; Pred. No. 5e+02;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELLE 8  
DB 466 QTVLELLE 473

RESULT 31  
US-10-424-599-183425  
Sequence 183425, Application US/10424599  
Publication No. US20040031072A1  
GENERAL INFORMATION:  
APPLICANT: La Rosa Thomas J  
APPLICANT: Kovalic David K  
APPLICANT: Zhou Yihua  
APPLICANT: Cao Yongwei  
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With  
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
FILE REFERENCE: 38-21(53223)B  
CURRENT APPLICATION NUMBER: US/10/424,599  
CURRENT FILING DATE: 2003-04-28  
NUMBER OF SEQ ID NOS: 285684  
SEQ ID NO 183425  
LENGTH: 778  
TYPE: PRT  
ORGANISM: Glycine max  
FEATURE:  
NAME/KEY: unsure  
LOCATION: (1)..(778)  
OTHER INFORMATION: unsure at all Xaa locations  
FEATURE:  
OTHER INFORMATION: Clone ID: PAT\_MRT3847\_136646C.1.pep  
US-10-424-599-183425

Query Match 80.5%; Score 33; DB 4; Length 778;  
Best Local Similarity 87.5%; Pred. No. 7.7e+02;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELLE 8  
DB 22 KTVLELLE 29

RESULT 32  
US-10-424-599-238328  
Sequence 238328, Application US/10424599  
Publication No. US20040031072A1  
GENERAL INFORMATION:  
APPLICANT: La Rosa Thomas J  
APPLICANT: Kovalic David K  
APPLICANT: Zhou Yihua  
APPLICANT: Cao Yongwei  
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With  
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
FILE REFERENCE: 38-21(53223)B  
CURRENT APPLICATION NUMBER: US/10/424,599  
CURRENT FILING DATE: 2003-04-28  
NUMBER OF SEQ ID NOS: 285684  
SEQ ID NO 238328  
LENGTH: 46  
TYPE: PRT  
ORGANISM: Glycine max  
FEATURE:  
OTHER INFORMATION: Clone ID: PAT\_MRT3847\_57235C.1.pep  
US-10-424-599-238328

Query Match 78.0%; Score 32; DB 4; Length 46;  
Best Local Similarity 87.5%; Pred. No. 52;

Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KTVLELLE 8  
DB 5 KTVLELLE 12

RESULT 33  
US-10-425-115-186757  
Sequence 186757, Application US/10425115  
Publication No. US20040214272A1  
GENERAL INFORMATION:  
APPLICANT: La Rosa, Thomas J.  
APPLICANT: Kovalic, David K.  
APPLICANT: Zhou, Yihua  
APPLICANT: Cao, Yongwei  
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
TITLE OF INVENTION: Plants  
FILE REFERENCE: 38-21(53222)B  
CURRENT APPLICATION NUMBER: US/10/425,115  
CURRENT FILING DATE: 2003-04-28  
NUMBER OF SEQ ID NOS: 369326  
SEQ ID NO 186757  
LENGTH: 267  
TYPE: PRT  
ORGANISM: Zea mays  
FEATURE:  
OTHER INFORMATION: Clone ID: MRT4577\_101911C.1.pep  
US-10-425-115-186757

Query Match 78.0%; Score 32; DB 4; Length 267;  
Best Local Similarity 77.8%; Pred. No. 3.7e+02;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 KTVLELLE 9  
DB 183 KTVLELLE 191

RESULT 34  
US-09-980-217-15  
Sequence 15, Application US/09980217  
Publication No. US20040219645A1  
GENERAL INFORMATION:  
APPLICANT: Bioclica Technology Limited  
APPLICANT: Leadley, Peter F  
APPLICANT: Staunton, James  
APPLICANT: Olynyk, Marko  
TITLE OF INVENTION: Polyketides and their synthesis  
FILE REFERENCE: IS/BP5858469  
CURRENT APPLICATION NUMBER: US/09/980,217  
CURRENT FILING DATE: 2002-05-06  
PRIOR APPLICATION NUMBER: PCT/GB00/02072  
PRIOR FILING DATE: 2000-05-30  
PRIOR APPLICATION NUMBER: GB 9912563.5  
PRIOR FILING DATE: 1999-05-28  
NUMBER OF SEQ ID NOS: 52  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 15  
LENGTH: 276  
TYPE: PRT  
ORGANISM: Streptomyces cinnamonensis  
US-09-980-217-15

Query Match 78.0%; Score 32; DB 3; Length 276;  
Best Local Similarity 75.0%; Pred. No. 3.8e+02;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 TVLELLE 9  
DB 212 TVLELLE 219

## RESULT 35

US-09-864-761-37735  
Sequence 37735, Application US/09864761  
Patent No. US20020048763A1  
GENERAL INFORMATION:  
APPLICANT: Penn, Sharon G.  
APPLICANT: Rank, David R.  
APPLICANT: Hanzel, David K.  
APPLICANT: Chen, Wensheng  
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR  
FILE REFERENCE: Aecomica-X-1  
CURRENT FILING DATE: 2001-05-23  
CURRENT FILING DATE: 2001-05-23  
PRIOR APPLICATION NUMBER: US 60/180,312  
PRIOR FILING DATE: 2000-02-04  
PRIOR APPLICATION NUMBER: US 60/207,456  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: US 09/632,366  
PRIOR FILING DATE: 2000-08-03  
PRIOR APPLICATION NUMBER: GB 24263,6  
PRIOR FILING DATE: 2000-10-04  
PRIOR APPLICATION NUMBER: US 60/236,359  
PRIOR FILING DATE: 2000-09-27  
PRIOR APPLICATION NUMBER: PCT/US01/00666  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00667  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00664  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00669  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00665  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00668  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00663  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00662  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00661  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00670  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: US 60/234,687  
PRIOR FILING DATE: 2000-09-21  
PRIOR APPLICATION NUMBER: US 09/608,408  
PRIOR FILING DATE: 2000-06-30  
PRIOR APPLICATION NUMBER: US 09/774,203  
PRIOR FILING DATE: 2001-01-29  
NUMBER OF SEQ ID NOS: 49117  
SOFTWARE: Anomax Sequence Listing Engine vers. 1.1  
SEQ ID NO 37735  
LENGTH: 398  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
OTHER INFORMATION: MAP TO AL021808.1  
OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 2.1  
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 2.2  
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 2  
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2.1  
OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 2.3  
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 2.3  
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2  
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 2.1  
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.9  
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 2.1  
OTHER INFORMATION: EST HUMAN HIT: A1017213.1, EVALU6 4.00e-27  
OTHER INFORMATION: SWISSPROT HIT: P52591, EVALU6 3.00e-54  
US-09-864-761-37735

Query Match 78.0%; Score 32; DB 3; Length 398;

Best Local Similarity 100.0%; Pred. No. 5, 8e+02;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KTVLELT 7  
Db 27 KTVLELT 33

## RESULT 36

US-10-369-493-3073  
Sequence 3073, Application US/10369493  
Publication No. US20030233675A1  
GENERAL INFORMATION:  
APPLICANT: Cao, Yongwei  
APPLICANT: Hinkle, Gregory J.  
APPLICANT: Slater, Steven C.  
APPLICANT: Goldman, Barry S.  
APPLICANT: Chen, Xianfeng  
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF  
FILE REFERENCE: 38-10(52052)B  
CURRENT FILING DATE: 2003-02-28  
PRIOR APPLICATION NUMBER: US 60/360,039  
PRIOR FILING DATE: 2002-02-21  
NUMBER OF SEQ ID NOS: 47374  
SEQ ID NO 3073  
LENGTH: 1046  
TYPE: PRT  
ORGANISM: Neurospora crassa  
FEATURE:  
NAME/KEY: unsure  
LOCATION: (1)..(1046)  
OTHER INFORMATION: unsure at all Xaa locations  
US-10-369-493-3073

Query Match 78.0%; Score 32; DB 4; Length 1046;  
Best Local Similarity 75.0%; Pred. No. 1, 7e+03;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TVLELT 9  
Db 433 TVLELT 440

## RESULT 37

US-10-751-845-136  
Sequence 136, Application US/10751845  
Publication No. US20050100928A1  
GENERAL INFORMATION:  
APPLICANT: Hedley, Mary Lynne  
APPLICANT: Urban, Robert G.  
APPLICANT: Chiciz, Roman M.  
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES  
FILE REFERENCE: 08191-013001  
CURRENT FILING DATE: 2004-01-05  
CURRENT FILING DATE: 2004-01-05  
PRIOR APPLICATION NUMBER: US/10/751,845  
PRIOR FILING DATE: 2000-08-18  
PRIOR APPLICATION NUMBER: US 60/169,846  
PRIOR FILING DATE: 1999-12-09  
PRIOR APPLICATION NUMBER: US 60/154,665  
PRIOR FILING DATE: 1999-09-16  
NUMBER OF SEQ ID NOS: 163  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 136  
LENGTH: 10  
TYPE: PRT  
ORGANISM: Human Papilloma virus  
US-10-751-845-136

Query Match 75.6%; Score 31; DB 5; Length 10;  
Best Local Similarity 100.0%; Pred. No. 15;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 VLELTV 9  
Db 1 VLELTV 7

## RESULT 38

US-09-764-869-1229  
; Sequence 1229, Application US/09764869  
; Patent No. US20020061521A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PC007  
; CURRENT APPLICATION NUMBER: US/09/764,869  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - refer to PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 2442  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1229  
; LENGTH: 52  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-764-869-1229

Query Match 75.6%; Score 31; DB 3; Length 52;  
Best Local Similarity 75.0%; Pred. No. 94;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 1 KTVLELTV 8  
Db 24 KTMLELTV 31

## RESULT 39

US-10-091-504-1229  
; Sequence 1229, Application US/10091504  
; Publication No. US20030059908A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PC007C1  
; CURRENT APPLICATION NUMBER: US/10/091,504  
; CURRENT FILING DATE: 2002-03-07  
; NUMBER OF SEQ ID NOS: 2442  
; Prior Application removed - See File Wrapper or Palm  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1229  
; LENGTH: 52  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-091-504-1229

Query Match 75.6%; Score 31; DB 4; Length 52;  
Best Local Similarity 75.0%; Pred. No. 94;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 1 KTVLELTV 8  
Db 24 KTMLELTV 31

## RESULT 40

US-10-227-577-1229  
; Sequence 1229, Application US/10227577  
; Publication No. US20040005555A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PC007C2  
; CURRENT APPLICATION NUMBER: US/10/227,577  
; CURRENT FILING DATE: 2002-08-26

PRIOR APPLICATION NUMBER: 10/091,504  
; PRIOR FILING DATE: 2002-03-07  
; PRIOR APPLICATION NUMBER: 09/764,869  
; PRIOR FILING DATE: 2001-01-17  
; PRIOR APPLICATION NUMBER: 60/179,065  
; PRIOR FILING DATE: 2000-01-31  
; PRIOR APPLICATION NUMBER: 60/180,628  
; PRIOR FILING DATE: 2000-02-04  
; PRIOR APPLICATION NUMBER: 60/214,886  
; PRIOR FILING DATE: 2000-06-28  
; PRIOR APPLICATION NUMBER: 60/217,487  
; PRIOR FILING DATE: 2000-07-11  
; PRIOR APPLICATION NUMBER: 60/225,758  
; PRIOR FILING DATE: 2000-08-14  
; PRIOR APPLICATION NUMBER: 60/220,963  
; PRIOR FILING DATE: 2000-07-26  
; PRIOR APPLICATION NUMBER: 60/217,496  
; PRIOR FILING DATE: 2000-07-11  
; PRIOR APPLICATION NUMBER: 60/225,447  
; PRIOR FILING DATE: 2000-08-14  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 2442  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1229  
; LENGTH: 52  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-227-577-1229

Query Match 75.6%; Score 31; DB 4; Length 52;  
Best Local Similarity 75.0%; Pred. No. 94;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 1 KTVLELTV 8  
Db 24 KTMLELTV 31

## RESULT 41

US-10-437-963-204256  
; Sequence 204256, Application US/10437963  
; Publication No. US20040123343A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li, Ping  
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With  
; FILE REFERENCE: 38-21(53221)B  
; CURRENT APPLICATION NUMBER: US/10/437,963  
; CURRENT FILING DATE: 2003-05-14  
; NUMBER OF SEQ ID NOS: 204966  
; SEQ ID NO 204256  
; LENGTH: 118  
; TYPE: PRT  
; ORGANISM: Oryza sativa  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_99361C.1.pcp  
US-10-437-963-204256

Query Match 75.6%; Score 31; DB 4; Length 118;  
Best Local Similarity 75.0%; Pred. No. 2,4e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 KTVLELTV 8  
Db 14 KTVLELTV 21

```
RESULT 42
US-10-043-487-360
; Sequence 360, Application US/10043487
; Publication No. US20030055220A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
; APPLICANT: PIERRE, LEGRIN
; TITLE OF INVENTION: Protein-protein interactions between Shigella flexneri polypeptide
; FILE REFERENCE: B4778A
; CURRENT APPLICATION NUMBER: US/10/043,487
; PRIOR FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/261,130
; PRIOR FILING DATE: 2001-01-12
; NUMBER OF SEQ ID NOS: 561
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 360
; LENGTH: 291
; TYPE: PRT
; ORGANISM: Shigella flexneri
US-10-043-487-360
```

```
Query Match          75.6%; Score 31; DB 4; Length 291;
Best Local Similarity 44.4%; Pred. No. 6.5e+02;
Matches 4; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 KTVLELTV 9
Db      19 RTILEMTQI 27
```

```
RESULT 43
US-10-369-493-5584
; Sequence 5584, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 5584
; LENGTH: 343
; TYPE: PRT
; ORGANISM: Caenorhabditis elegans
US-10-369-493-5584
```

```
Query Match          75.6%; Score 31; DB 4; Length 343;
Best Local Similarity 55.6%; Pred. No. 7.8e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 KTVLELTV 9
Db      206 KTVLELTVI 214
```

```
RESULT 44
US-10-424-599-177645
; Sequence 177645, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovalic, David K
; APPLICANT: Zhou, Yihua
```

```
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 177645
; LENGTH: 388
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(388)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_131429C.1.pep
US-10-424-599-177645
```

```
Query Match          75.6%; Score 31; DB 4; Length 388;
Best Local Similarity 85.7%; Pred. No. 8.9e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      2 TVLELTV 8
Db      153 TVLELTV 159
```

```
RESULT 45
US-10-097-559-40
; Sequence 40, Application US/10097559
; Publication No. US20030166255A1
; GENERAL INFORMATION:
; APPLICANT: Chappell, Joseph
; APPLICANT: Ralsdon, Lyle F.
; TITLE OF INVENTION: Cytochrome P450s and Uses Thereof
; FILE REFERENCE: 07678/100003
; CURRENT APPLICATION NUMBER: US/10/097,559
; CURRENT FILING DATE: 2002-03-08
; PRIOR APPLICATION NUMBER: US 60/274,241
; PRIOR FILING DATE: 2001-03-09
; PRIOR APPLICATION NUMBER: US 60/275,597
; PRIOR FILING DATE: 2001-03-13
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 40
; LENGTH: 496
; TYPE: PRT
; ORGANISM: Mentha spicata
US-10-097-559-40
```

```
Query Match          75.6%; Score 31; DB 4; Length 496;
Best Local Similarity 66.7%; Pred. No. 1.2e+03;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 KTVLELTV 9
Db      335 KTVLDLSEV 343
```

```
RESULT 46
US-10-732-923-1085
; Sequence 1085, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgeron, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
```

```

; SEQ ID NO 1085
; LENGTH: 496
; TYPE: PRT
; ORGANISM: Menha spicata
US-10-732-923-1085

```

```

Query Match          75.6%; Score 31; DB 5; Length 496;
Best Local Similarity 66.7%; Pred. No. 1.2e+03;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 KTVLELTV 9
Db      335 KTVVDLSEV 343

```

```

RESULT 47
US-10-450-763-51933
; Sequence 51933, Application US/10450763
; Publication No. US20050196754A1
GENERAL INFORMATION:

```

```

; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 51933
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: DOMAIN
; LOCATION: (77)..(128)
; OTHER INFORMATION: Domain of Unknown Function 2 domain identified by eMATRIX,
; FEATURE:
; OTHER INFORMATION: accession number PF00563A, p-value=1.000e-40, raw score of 30.25
; NAME/KEY: DOMAIN
; LOCATION: (352)..(502)
; OTHER INFORMATION: Integrate core domain identified by Pfam, accession name rve,
; OTHER INFORMATION: E-value=1.8e-33, Pfam score of 119.8
US-10-450-763-51933

```

```

Query Match          75.6%; Score 31; DB 5; Length 509;
Best Local Similarity 67.5%; Pred. No. 1.2e+03;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      1 KTVLELTV 8
Db      178 KTVLELTV 185

```

```

RESULT 48
US-10-094-749-2659
; Sequence 2659, Application US/10094749
; Publication No. US20030219741A1
GENERAL INFORMATION:

```

```

; APPLICANT: ISOGAL, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU

```

```

; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA
; FILE REFERENCE: 084335/0160
; CURRENT APPLICATION NUMBER: US/10/094,749
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 60/350,435
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: JP 2001-328381
; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2659
; LENGTH: 538
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-094-749-2659

```

```

Query Match          75.6%; Score 31; DB 4; Length 538;
Best Local Similarity 67.5%; Pred. No. 1.3e+03;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      1 KTVLELTV 8
Db      410 KTVLELTV 417

```

```

RESULT 49
US-10-818-066-34
; Sequence 34, Application US/10818066
; Publication No. US20050074793A1
GENERAL INFORMATION:
; APPLICANT: Protein Design Labs
; APPLICANT: Keith E. Wilson
; APPLICANT: J. Sunil Rao
; APPLICANT: Sandy Markowitz
; APPLICANT: Chascan Chandour
; TITLE OF INVENTION: METASTATIC COLORECTAL CANCER SIGNATURES
; FILE REFERENCE: 05882.0189.NPUS01
; CURRENT APPLICATION NUMBER: US/10/818,066
; CURRENT FILING DATE: 2004-04-02
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 34
; LENGTH: 575
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-10-818-066-34

```

```

Query Match          75.6%; Score 31; DB 5; Length 575;
Best Local Similarity 66.7%; Pred. No. 1.4e+03;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 KTVLELTV 9
Db      111 KTVVDLSEV 119

```

```

RESULT 50
US-10-504-582-152
; Sequence 152, Application US/10504582
; Publication No. US20050176943A1
GENERAL INFORMATION:

```

```

; APPLICANT: YOSHITAKE, NISHIMUNE
; APPLICANT: HIROMITSU, TANAKA
; APPLICANT: MASAMI, NOZAKI
; TITLE OF INVENTION: Mouse spermatogenesis genes, mutations of male infertility-related

```

; TITLE OF INVENTION: and uses thereof.  
; FILE REFERENCE: 2004-1256A/WMC/00553  
; CURRENT APPLICATION NUMBER: US/10/504,582  
; CURRENT FILING DATE: 2004-08-13  
; PRIOR APPLICATION NUMBER: JP2002-36649  
; PRIOR FILING DATE: 2002-02-14  
; PRIOR APPLICATION NUMBER: JP2002-381241  
; PRIOR FILING DATE: 2002-12-27  
; NUMBER OF SEQ ID NOS: 183  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 152  
; LENGTH: 693  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-10-504-582-152

Query Match 75.6%; Score 31; DB 5; Length 693;  
Best Local Similarity 66.7%; Pred. No. 1.7e+03;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 KTVLELREV 9  
||: :|||  
Db 253 KTISQLETV 261

Search completed: May 5, 2006, 07:56:04  
Job time : 66.9 secs

GenCore version 5.1.7  
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

OM protein - protein search, using SW model

Run on: May 5, 2006, 07:46:05 ; Search time 8.4 Seconds  
(without alignments)  
49.591 Million cell updates/sec

Title: US-08-170-344-25  
Perfect score: 41  
Sequence: 1 KTVLELTV 9

Scoring table: BIOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database :

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2: /SID55/ptodata/1/pubpaa/US07\_NEW\_PUB.pep1.\*  
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11: /SID55/ptodata/1/pubpaa/US11\_NEW\_PUB.pep1.\*  
12: /SID55/ptodata/1/pubpaa/US60\_NEW\_PUB.pep1.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	41	100.0	158	9	US-10-530-253-15
2	33	80.5	230	11	US-11-096-568A-5439
3	33	80.5	239	11	US-11-096-568A-5438
4	33	80.5	248	11	US-11-096-568A-5437
5	33	80.5	481	11	US-11-045-004-328
6	33	80.5	500	9	US-10-821-234-1458
7	33	80.5	500	11	US-11-090-915-2
8	31	75.6	496	11	US-11-087-099-2202
9	31	75.6	496	11	US-11-188-298-2151
10	31	75.6	711	9	US-10-506-454-111
11	30	73.2	175	9	US-10-330-773-82
12	30	73.2	302	9	US-10-793-626-3062
13	29	70.7	131	9	US-10-793-626-3086
14	29	70.7	180	9	US-11-181-115-1
15	29	70.7	303	10	US-11-181-115-44
16	29	70.7	303	11	US-11-186-284-193
17	29	70.7	304	11	US-11-156-084-291
18	29	70.7	304	11	US-11-156-084-313
19	29	70.7	315	11	US-11-156-084-353
20	29	70.7	315	11	US-11-079-463-7965
21	29	70.7	358	11	US-11-079-463-7965

22	29	70.7	363	9	US-10-055-877-14	Sequence 14, Appl
23	29	70.7	613	11	US-11-055-822-110	Sequence 110, Appl
24	29	70.7	997	11	US-11-080-991-50	Sequence 50, Appl
25	29	70.7	999	11	US-11-113-424-36	Sequence 36, Appl
26	29	70.7	3389	9	US-10-204-252-10	Sequence 10, Appl
27	29	70.7	3391	9	US-10-204-252-6	Sequence 6, Appl
28	29	70.7	3391	9	US-10-204-252-8	Sequence 8, Appl
29	29	70.7	3391	9	US-10-204-252-12	Sequence 12, Appl
30	29	70.7	3391	9	US-10-204-252-14	Sequence 14, Appl
31	29	70.7	3391	9	US-10-204-252-16	Sequence 16, Appl
32	29	70.7	3391	9	US-10-204-252-18	Sequence 18, Appl
33	29	70.7	3402	9	US-10-204-252-18	Sequence 18, Appl
34	29	70.7	1180	9	US-10-467-657-390	Sequence 390, Appl
35	28	68.3	124	11	US-11-079-463-5429	Sequence 5429, Ap
36	28	68.3	151	11	US-11-096-568A-11451	Sequence 11451, A
37	28	68.3	167	11	US-11-045-004-523	Sequence 523, Appl
38	28	68.3	192	9	US-10-506-454-263	Sequence 263, Appl
39	28	68.3	226	11	US-11-096-568A-10973	Sequence 10973, A
40	28	68.3	262	11	US-11-096-568A-31750	Sequence 31750, A
41	28	68.3	284	11	US-11-045-004-549	Sequence 549, Appl
42	28	68.3	306	11	US-11-096-568A-31749	Sequence 31749, A
43	28	68.3	313	11	US-11-045-004-1210	Sequence 1210, Ap
44	28	68.3	313	11	US-11-156-084-208	Sequence 208, Appl
45	28	68.3	315	11	US-11-096-568A-10972	Sequence 10972, A
46	28	68.3	329	11	US-11-096-568A-31748	Sequence 31748, A
47	28	68.3	334	11	US-11-087-099-8595	Sequence 8595, Ap
48	28	68.3	341	11	US-11-087-099-6306	Sequence 6306, Ap
49	28	68.3	344	11	US-11-087-099-3605	Sequence 3605, Ap
50	28	68.3	351	11	US-11-045-004-1301	Sequence 1301, Ap
51	28	68.3	360	11	US-11-096-568A-31748	Sequence 31748, A
52	28	68.3	377	11	US-11-087-099-2908	Sequence 2908, Ap
53	28	68.3	439	11	US-11-096-568A-32897	Sequence 32897, A
54	28	68.3	468	10	US-11-242-111-27	Sequence 27, Appl
55	28	68.3	468	11	US-11-096-568A-32895	Sequence 32895, A
56	28	68.3	582	11	US-11-096-568A-32896	Sequence 32896, A
57	28	68.3	732	11	US-11-045-004-9652	Sequence 9652, A
58	28	68.3	793	11	US-11-096-568A-32896	Sequence 32896, A
59	28	68.3	796	11	US-11-072-512-2293	Sequence 2293, Ap
60	28	68.3	976	11	US-11-155-288-20	Sequence 20, Appl
61	28	68.3	1437	11	US-11-079-463-8094	Sequence 8094, Ap
62	28	68.3	1437	11	US-11-079-463-8094	Sequence 8094, Ap
63	27.5	67.1	345	11	US-11-096-568A-32831	Sequence 32831, A
64	27.5	67.1	610	11	US-11-096-568A-32831	Sequence 32831, A
65	27	65.9	772	11	US-11-123-896-203	Sequence 203, Appl
66	27	65.9	113	9	US-10-467-657-3712	Sequence 3712, Ap
67	27	65.9	127	11	US-11-087-099-1952	Sequence 1952, Ap
68	27	65.9	152	9	US-10-506-454-636	Sequence 636, Appl
69	27	65.9	174	11	US-11-087-099-10080	Sequence 10080, A
70	27	65.9	192	11	US-11-087-099-1400	Sequence 1400, A
71	27	65.9	223	9	US-10-506-454-233	Sequence 233, Appl
72	27	65.9	253	9	US-10-878-556A-95	Sequence 95, Appl
73	27	65.9	258	11	US-11-079-463-6766	Sequence 6766, Ap
74	27	65.9	260	11	US-11-087-099-913	Sequence 913, Appl
75	27	65.9	287	11	US-11-087-099-8917	Sequence 8917, Ap
76	27	65.9	291	11	US-11-045-004-643	Sequence 643, Appl
77	27	65.9	300	11	US-11-188-298-1073	Sequence 1073, Ap
78	27	65.9	312	11	US-11-096-568A-29415	Sequence 29415, A
79	27	65.9	316	11	US-11-188-298-13434	Sequence 13434, A
80	27	65.9	320	11	US-11-188-298-10798	Sequence 10798, A
81	27	65.9	335	11	US-11-188-298-709	Sequence 709, Appl
82	27	65.9	365	11	US-11-188-298-1109	Sequence 1109, Ap
83	27	65.9	365	11	US-11-188-298-1109	Sequence 1109, Ap
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86	27	65.9	374	11	US-11-188-298-1109	Sequence 1109, Ap
87	27	65.9	374	11	US-11-188-298-1109	Sequence 1109, Ap
88	27	65.9	375	11	US-11-188-298-1109	Sequence 1109, Ap
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91	27	65.9	398	11	US-11-096-568A-29750	Sequence 29750, A
92	27	65.9	402	11	US-11-087-099-8718	Sequence 8718, Ap
93	27	65.9	420	11	US-11-087-099-8718	Sequence 8718, Ap
94	27	65.9	438	11	US-11-096-568A-29413	Sequence 29413, A

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96	27	65.9	442	11	US-11-096-568A-29749	Sequence 29749, A	169	26	63.4	248	11	US-11-076-164-9	Sequence 9, Appl1
97	27	65.9	447	9	US-10-467-657-4406	Sequence 4406, Ap	170	26	63.4	249	9	US-10-506-454-1378	Sequence 1378, Ap
98	27	65.9	453	11	US-11-188-298-20441	Sequence 20441, A	171	26	63.4	251	11	US-11-096-568A-32939	Sequence 32939, A
99	27	65.9	455	11	US-11-188-298-1246	Sequence 1246, Ap	172	26	63.4	254	11	US-11-096-568A-32938	Sequence 32938, A
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102	27	65.9	455	11	US-11-188-298-21223	Sequence 21223, A	175	26	63.4	272	11	US-11-096-568A-32937	Sequence 32937, A
103	27	65.9	462	11	US-11-188-298-4041	Sequence 4041, Ap	176	26	63.4	273	11	US-11-196-475-98	Sequence 98, Appl
104	27	65.9	483	11	US-11-096-568A-34242	Sequence 34242, A	177	26	63.4	274	11	US-11-196-475-101	Sequence 101, App
105	27	65.9	483	11	US-11-188-298-21214	Sequence 21214, A	178	26	63.4	273	11	US-11-196-475-9	Sequence 86, Appl
106	27	65.9	487	11	US-11-072-175-250	Sequence 250, App	179	26	63.4	274	11	US-11-196-475-186	Sequence 138, App
107	27	65.9	491	11	US-11-087-099-8792	Sequence 8792, App	180	26	63.4	274	11	US-11-196-475-118	Sequence 301, App
108	27	65.9	492	11	US-11-188-298-15299	Sequence 15299, A	181	26	63.4	310	11	US-11-156-084-301	Sequence 68, Appl
109	27	65.9	498	11	US-11-087-099-3874	Sequence 3874, Ap	182	26	63.4	313	11	US-11-237-600-68	Sequence 185, App
110	27	65.9	498	11	US-11-087-099-6654	Sequence 6654, Ap	183	26	63.4	315	11	US-11-156-084-185	Sequence 11558, A
111	27	65.9	499	11	US-11-087-099-2979	Sequence 2979, Ap	184	26	63.4	315	11	US-11-087-099-11558	Sequence 77, Appl
112	27	65.9	502	11	US-11-087-099-8267	Sequence 8267, Ap	185	26	63.4	316	9	US-10-995-793-77	Sequence 4, Appl1
113	27	65.9	502	11	US-11-096-568A-34241	Sequence 34241, A	186	26	63.4	316	11	US-11-125-263A-4	Sequence 193, App
114	27	65.9	503	11	US-11-188-298-16487	Sequence 16487, A	187	26	63.4	316	11	US-11-156-084-193	Sequence 210, App
115	27	65.9	504	11	US-11-087-099-2131	Sequence 2131, Ap	188	26	63.4	316	11	US-11-156-084-210	Sequence 213, App
116	27	65.9	509	11	US-11-096-568A-34240	Sequence 34240, A	189	26	63.4	316	11	US-11-156-084-213	Sequence 214, App
117	27	65.9	531	11	US-11-010-239-32	Sequence 32, Appl	190	26	63.4	316	11	US-11-156-084-214	Sequence 280, App
118	27	65.9	531	11	US-11-045-004-540	Sequence 540, App	191	26	63.4	316	11	US-11-156-084-280	Sequence 287, App
119	27	65.9	537	11	US-11-079-463-7370	Sequence 7370, Ap	192	26	63.4	316	11	US-11-156-084-287	Sequence 303, App
120	27	65.9	598	11	US-11-079-463-6161	Sequence 6161, Ap	193	26	63.4	316	11	US-11-156-084-303	Sequence 30, Appl
121	27	65.9	610	9	US-10-858-730-74	Sequence 74, Appl	194	26	63.4	317	9	US-10-828-033-30	Sequence 272, App
122	27	65.9	630	11	US-11-188-298-16919	Sequence 16919, A	195	26	63.4	317	11	US-11-124-368A-272	Sequence 274, App
123	27	65.9	727	11	US-11-225-354-4	Sequence 4, Appl1	196	26	63.4	317	11	US-11-124-368A-274	Sequence 4, Appl1
124	27	65.9	730	8	US-10-505-928-841	Sequence 841, Appl1	197	26	63.4	318	11	US-11-246-980-4	Sequence 114, App
125	27	65.9	1218	11	US-11-188-298-1733	Sequence 1733, Ap	198	26	63.4	324	9	US-10-878-556A-114	Sequence 203, App
126	26	63.4	80	11	US-11-096-568A-14067	Sequence 14067, A	199	26	63.4	324	11	US-11-229-765-203	Sequence 376, App
127	26	63.4	92	11	US-11-087-099-856	Sequence 856, App	200	26	63.4	324	11	US-11-024-955-376	Sequence 176, App
128	26	63.4	107	11	US-11-096-568A-24961	Sequence 24961, A	201	26	63.4	344	11	US-11-196-475-176	Sequence 1614, App
129	26	63.4	113	11	US-11-096-568A-14066	Sequence 14066, A	202	26	63.4	348	9	US-10-821-234-1614	Sequence 24, Appl
130	26	63.4	123	11	US-11-194-246-399	Sequence 399, App	203	26	63.4	348	9	US-10-857-780-24	Sequence 58, Appl
131	26	63.4	130	11	US-11-018-868-7	Sequence 7, Appl1	204	26	63.4	348	11	US-11-108-088-58	Sequence 65, Appl
132	26	63.4	131	11	US-11-079-463-7576	Sequence 7576, Ap	205	26	63.4	348	11	US-11-108-088-65	Sequence 14608, A
133	26	63.4	135	9	US-10-506-454-555	Sequence 555, App	206	26	63.4	356	11	US-11-188-298-1608	Sequence 7977, Ap
134	26	63.4	135	11	US-11-045-004-2242	Sequence 2242, Ap	207	26	63.4	356	11	US-11-188-298-7977	Sequence 9393, App
135	26	63.4	137	11	US-11-096-568A-10543	Sequence 10543, A	208	26	63.4	356	11	US-11-188-298-14973	Sequence 14973, A
136	26	63.4	156	11	US-11-096-568A-14065	Sequence 14065, A	209	26	63.4	356	11	US-11-188-298-16740	Sequence 16740, A
137	26	63.4	156	11	US-11-096-568A-17932	Sequence 17932, A	210	26	63.4	356	11	US-11-188-298-21513	Sequence 21513, A
138	26	63.4	158	9	US-10-530-253-20	Sequence 20, Appl	211	26	63.4	356	11	US-11-188-298-21513	Sequence 273, App
139	26	63.4	158	11	US-11-096-568A-17931	Sequence 17931, A	212	26	63.4	359	11	US-11-124-368A-273	Sequence 18068, A
140	26	63.4	161	11	US-11-087-099-7179	Sequence 7179, Ap	213	26	63.4	359	11	US-11-188-298-17157	Sequence 18068, A
141	26	63.4	161	11	US-11-096-568A-10124	Sequence 10124, A	214	26	63.4	359	11	US-11-188-298-18068	Sequence 361, App
142	26	63.4	163	11	US-11-096-568A-10123	Sequence 10123, A	215	26	63.4	359	11	US-11-188-298-20827	Sequence 113, App
143	26	63.4	165	11	US-11-087-099-7545	Sequence 7545, Ap	216	26	63.4	363	11	US-11-229-765-361	Sequence 14445, A
144	26	63.4	168	11	US-11-096-568A-10541	Sequence 10541, A	217	26	63.4	373	9	US-10-498-026-113	Sequence 10564, A
145	26	63.4	170	11	US-11-087-099-5387	Sequence 5387, Ap	218	26	63.4	374	11	US-11-188-298-14445	Sequence 8, Appl1
146	26	63.4	172	11	US-11-087-099-5387	Sequence 5387, Ap	219	26	63.4	406	11	US-11-096-568A-10564	Sequence 1, Appl1
147	26	63.4	172	11	US-11-096-568A-24960	Sequence 24960, A	220	26	63.4	413	9	US-10-703-7998-8	Sequence 74, Appl
148	26	63.4	173	11	US-11-087-099-9991	Sequence 9991, Ap	221	26	63.4	414	9	US-10-878-556A-1	Sequence 74, Appl
149	26	63.4	174	11	US-11-087-099-6453	Sequence 6453, Ap	222	26	63.4	432	9	US-10-194-487-74	Sequence 160, App
150	26	63.4	176	9	US-10-821-234-860	Sequence 860, App	223	26	63.4	432	9	US-10-195-883-74	Sequence 456, App
151	26	63.4	176	11	US-11-087-099-9107	Sequence 9107, App	224	26	63.4	432	9	US-10-195-888-74	Sequence 2801, App
152	26	63.4	176	11	US-11-188-298-19433	Sequence 19433, A	225	26	63.4	432	9	US-10-195-888-74	Sequence 4541, Ap
153	26	63.4	179	11	US-11-096-568A-17930	Sequence 17930, A	226	26	63.4	432	9	US-10-195-888-74	Sequence 4117, Ap
154	26	63.4	181	11	US-11-087-099-12059	Sequence 12059, A	227	26	63.4	432	9	US-10-216-161A-90	Sequence 21229, A
155	26	63.4	185	11	US-11-096-568A-24959	Sequence 24959, A	228	26	63.4	440	9	US-10-501-841-45	Sequence 167, App
156	26	63.4	186	11	US-11-096-568A-10122	Sequence 10122, A	229	26	63.4	440	11	US-10-821-234-1282	Sequence 17859, A
157	26	63.4	216	11	US-11-096-568A-10122	Sequence 10122, A	230	26	63.4	440	11	US-11-227-543-17	Sequence 2783, Ap
158	26	63.4	216	11	US-11-045-004-1954	Sequence 1954, Ap	231	26	63.4	447	11	US-11-196-475-162	
159	26	63.4	216	11	US-11-156-084-244	Sequence 244, App	232	26	63.4	448	11	US-11-087-099-456	
160	26	63.4	218	11	US-11-125-263A-6	Sequence 322, App	233	26	63.4	453	11	US-11-045-004-2801	
161	26	63.4	219	11	US-11-125-263A-16	Sequence 16, Appl	234	26	63.4	454	11	US-11-196-475-160	
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163	26	63.4	222	11	US-11-125-263A-8	Sequence 8, Appl1	236	26	63.4	475	11	US-11-096-568A-4785	
164	26	63.4	231	11	US-11-045-004-1824	Sequence 1824, Ap	237	26	63.4	483	11	US-11-087-099-4117	
165	26	63.4	236	11	US-11-018-868-41	Sequence 41, Appl	238	26	63.4	491	8	US-10-505-928-167	
166	26	63.4	240	11	US-11-079-463-8399	Sequence 8399, Ap	239	26	63.4	496	11	US-11-188-298-17859	
167	26	63.4	246	11	US-11-092-140-111	Sequence 111, App	240	26	63.4	498	11	US-11-188-298-2783	



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242	26	63.4	501	11	US-11-188-298-11502	Sequence 11502, A	315	25	61.0	228	11	US-11-188-298-7237	Sequence 7237, Ap
243	26	63.4	503	11	US-11-188-298-11973	Sequence 11973, A	316	25	61.0	266	11	US-11-045-004-132	Sequence 132, App
244	26	63.4	538	9	US-10-703-7998-6	Sequence 6, Appl1	317	25	61.0	269	11	US-11-096-568A-22405	Sequence 22405, A
245	26	63.4	639	11	US-11-232-406A-20	Sequence 20, Appl1	318	25	61.0	278	9	US-10-506-454-526	Sequence 526, App
246	26	63.4	681	11	US-11-079-463-6218	Sequence 6218, Ap	319	25	61.0	280	11	US-11-079-463-6417	Sequence 6417, Ap
247	26	63.4	746	11	US-11-072-175-169	Sequence 169, App	320	25	61.0	291	9	US-10-467-657-5640	Sequence 5640, Ap
248	26	63.4	774	11	US-11-072-512-2554	Sequence 2554, Ap	321	25	61.0	293	11	US-11-188-298-2668	Sequence 2668, Ap
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250	26	63.4	803	9	US-10-962-951-2	Sequence 2, Appl1	323	25	61.0	293	11	US-11-188-298-7112	Sequence 7112, Ap
251	26	63.4	964	11	US-11-072-512-2337	Sequence 2337, Ap	324	25	61.0	294	9	US-11-087-099-16090	Sequence 16090, A
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253	26	63.4	1054	11	US-11-079-463-5968	Sequence 5968, Ap	326	25	61.0	296	9	US-10-507-720-36	Sequence 36, Appl1
254	26	63.4	1184	9	US-10-131-826A-412	Sequence 412, App	327	25	61.0	298	11	US-11-087-099-2173	Sequence 2173, Ap
255	26	63.4	1184	9	US-10-973-115B-412	Sequence 412, App	328	25	61.0	300	11	US-11-188-298-6274	Sequence 6274, Ap
256	26	63.4	1184	9	US-10-137-873A-412	Sequence 412, App	329	25	61.0	301	11	US-11-045-004-1760	Sequence 1760, Ap
257	26	63.4	1184	9	US-10-152-370-412	Sequence 412, App	330	25	61.0	303	11	US-11-188-298-7893	Sequence 7893, Ap
258	26	63.4	1184	11	US-11-290-153-412	Sequence 412, App	331	25	61.0	304	9	US-10-793-626-650	Sequence 650, App
259	26	63.4	1189	11	US-11-074-176-134	Sequence 134, App	332	25	61.0	304	9	US-10-793-626-1716	Sequence 1716, Ap
260	26	63.4	1442	9	US-10-793-626-2052	Sequence 2052, Ap	333	25	61.0	308	11	US-11-055-822-822	Sequence 822, App
261	26	63.4	1444	11	US-11-045-004-1327	Sequence 1327, Ap	334	25	61.0	309	11	US-11-087-099-8647	Sequence 8647, Ap
262	26	63.4	1728	11	US-11-019-711-72	Sequence 72, Appl1	335	25	61.0	309	11	US-11-087-099-8977	Sequence 8977, Ap
263	26	63.4	1928	9	US-10-480-330-30	Sequence 30, Appl1	336	25	61.0	311	11	US-11-045-004-1737	Sequence 1737, Ap
264	26	63.4	1965	9	US-10-480-330-4	Sequence 4, Appl1	337	25	61.0	311	11	US-11-156-084-211	Sequence 211, App
265	26	63.4	1966	9	US-10-480-330-6	Sequence 6, Appl1	338	25	61.0	312	9	US-10-873-528-73	Sequence 73, Appl1
266	26	63.4	1966	9	US-10-480-330-8	Sequence 8, Appl1	339	25	61.0	315	11	US-11-045-004-489	Sequence 489, App
267	26	63.4	1966	9	US-10-480-330-10	Sequence 10, Appl1	340	25	61.0	316	11	US-11-188-298-19113	Sequence 19113, A
268	26	63.4	1966	9	US-10-480-330-12	Sequence 12, Appl1	341	25	61.0	318	11	US-11-087-099-2984	Sequence 2984, Ap
269	26	63.4	1966	9	US-10-480-330-14	Sequence 14, Appl1	342	25	61.0	318	11	US-11-087-099-3001	Sequence 3001, Ap
270	26	63.4	1966	9	US-10-480-330-16	Sequence 16, Appl1	343	25	61.0	318	11	US-11-087-099-9417	Sequence 9417, Ap
271	26	63.4	1966	9	US-10-480-330-18	Sequence 18, Appl1	344	25	61.0	332	9	US-10-506-454-1272	Sequence 1272, Ap
272	26	63.4	1966	9	US-10-480-330-20	Sequence 20, Appl1	345	25	61.0	335	11	US-11-087-099-4059	Sequence 4059, Ap
273	26	63.4	1966	9	US-10-480-330-22	Sequence 22, Appl1	346	25	61.0	335	11	US-11-087-099-8353	Sequence 8353, Ap
274	26	63.4	1966	9	US-10-480-330-24	Sequence 24, Appl1	347	25	61.0	335	11	US-11-087-099-9182	Sequence 9182, Ap
275	26	63.4	1966	9	US-10-480-330-26	Sequence 26, Appl1	348	25	61.0	336	11	US-11-087-099-7384	Sequence 7384, Ap
276	26	63.4	1966	9	US-10-480-330-28	Sequence 28, Appl1	349	25	61.0	337	11	US-11-087-099-11543	Sequence 11543, A
277	26	63.4	1966	9	US-11-013-759-3	Sequence 3, Appl1	350	25	61.0	337	9	US-11-087-099-7137	Sequence 7137, Ap
278	26	63.4	1992	11	US-11-013-759-13	Sequence 13, Appl1	351	25	61.0	350	9	US-10-533-811-31	Sequence 31, Appl1
279	26	63.4	2004	9	US-10-469-469-250	Sequence 250, App	352	25	61.0	350	11	US-11-188-298-3903	Sequence 3903, Ap
280	26	63.4	2047	11	US-11-013-759-4	Sequence 4, Appl1	353	25	61.0	353	11	US-11-096-568A-33207	Sequence 33207, A
281	26	63.4	2047	11	US-11-013-759-7	Sequence 7, Appl1	354	25	61.0	354	11	US-11-096-568A-22404	Sequence 22404, A
282	26	63.4	2047	11	US-11-013-759-9	Sequence 9, Appl1	355	25	61.0	355	11	US-11-079-463-7959	Sequence 7959, Ap
283	25.5	62.2	317	11	US-11-045-004-332	Sequence 332, App	356	25	61.0	355	11	US-11-045-004-1254	Sequence 1254, Ap
284	25	61.0	41	9	US-10-916-827-28	Sequence 28, App	357	25	61.0	356	11	US-11-188-298-16491	Sequence 16491, A
285	25	61.0	41	9	US-10-916-827-44	Sequence 44, Appl1	358	25	61.0	361	11	US-11-096-568A-33206	Sequence 33206, A
286	25	61.0	49	9	US-10-467-657-8236	Sequence 8236, Ap	359	25	61.0	367	11	US-11-096-568A-5564	Sequence 5564, Ap
287	25	61.0	74	9	US-10-475-075-842	Sequence 842, App	360	25	61.0	367	11	US-11-219-282-21	Sequence 21, Appl1
288	25	61.0	77	11	US-11-079-463-8617	Sequence 8617, Ap	361	25	61.0	370	11	US-11-096-568A-33205	Sequence 33205, A
289	25	61.0	79	9	US-10-506-454-1245	Sequence 1245, Ap	362	25	61.0	371	11	US-11-129-143-68	Sequence 68, Appl1
290	25	61.0	95	11	US-11-096-568A-796	Sequence 796, App	363	25	61.0	372	11	US-11-129-143-69	Sequence 69, Appl1
291	25	61.0	96	11	US-11-087-099-10393	Sequence 10393, A	364	25	61.0	372	11	US-11-096-568A-5563	Sequence 5563, Ap
292	25	61.0	114	9	US-10-467-657-4450	Sequence 4450, Ap	365	25	61.0	380	11	US-11-087-099-5374	Sequence 5374, Ap
293	25	61.0	114	9	US-10-467-657-8412	Sequence 8412, Ap	366	25	61.0	388	11	US-11-087-099-4330	Sequence 4330, Ap
294	25	61.0	124	11	US-11-096-568A-795	Sequence 795, App	367	25	61.0	390	9	US-10-485-517-235	Sequence 235, App
295	25	61.0	124	11	US-11-079-463-8212	Sequence 8212, Ap	368	25	61.0	396	9	US-10-501-035-275	Sequence 275, App
296	25	61.0	128	11	US-11-098-686-11175	Sequence 11175, A	369	25	61.0	396	11	US-11-109-959-1807	Sequence 9507, Ap
297	25	61.0	138	11	US-11-096-568A-794	Sequence 794, App	370	25	61.0	396	11	US-11-087-099-5086	Sequence 9086, Ap
298	25	61.0	148	11	US-11-188-298-17581	Sequence 17581, A	371	25	61.0	400	11	US-11-079-463-7840	Sequence 7840, Ap
299	25	61.0	150	11	US-11-152-497-4	Sequence 4, Appl1	372	25	61.0	405	11	US-11-096-568A-1768	Sequence 1768, Ap
300	25	61.0	157	11	US-11-044-285-5	Sequence 5, Appl1	373	25	61.0	406	11	US-11-096-568A-1767	Sequence 1767, Ap
301	25	61.0	162	11	US-11-069-642-6	Sequence 6, Appl1	374	25	61.0	406	11	US-11-079-463-5667	Sequence 5667, Ap
302	25	61.0	166	11	US-11-176-830-1090	Sequence 1090, Ap	375	25	61.0	409	11	US-11-188-298-18864	Sequence 18864, A
303	25	61.0	166	11	US-11-196-067-286	Sequence 286, App	376	25	61.0	409	11	US-11-188-298-13433	Sequence 33433, A
304	25	61.0	181	11	US-11-188-298-10408	Sequence 10408, A	377	25	61.0	409	11	US-11-096-568A-33432	Sequence 33432, A
305	25	61.0	202	11	US-11-172-740-350	Sequence 550, App	378	25	61.0	410	11	US-11-188-298-16523	Sequence 16523, A
306	25	61.0	205	11	US-11-096-568A-22406	Sequence 22406, A	379	25	61.0	419	11	US-11-188-298-1766	Sequence 1766, Ap
307	25	61.0	212	9	US-10-506-454-635	Sequence 635, App	380	25	61.0	425	11	US-11-096-568A-2607	Sequence 2607, Ap
308	25	61.0	216	11	US-11-188-298-4415	Sequence 4415, Ap	381	25	61.0	426	11	US-11-188-298-33431	Sequence 33431, A
309	25	61.0	232	9	US-10-467-657-1672	Sequence 1672, Ap	382	25	61.0	427	11	US-11-188-298-1543	Sequence 1543, Ap
310	25	61.0	233	11	US-11-076-164-31	Sequence 13, Appl1	383	25	61.0	427	11	US-11-188-298-17659	Sequence 17629, A
311	25	61.0	233	11	US-11-087-099-3052	Sequence 3052, Ap	384	25	61.0	430	11	US-11-188-298-3939	Sequence 3939, Ap
312	25	61.0	233	11	US-11-087-099-6395	Sequence 6395, Ap	385	25	61.0	433	11	US-11-188-298-3939	Sequence 3939, Ap
313	25	61.0	233	11	US-11-087-099-6579	Sequence 6579, Ap	386	25	61.0	433	11	US-11-079-463-9953	Sequence 9953, Ap

387	25	61.0	434	11	US-11-096-568A-4749	Sequence 4749, Ap	460	25	61.0	1410	9	US-10-878-556A-136	Sequence 136, App
388	25	61.0	447	9	US-10-793-626-3900	Sequence 2900, Ap	461	25	61.0	1432	10	US-11-301-924-18	Sequence 18, App1
389	25	61.0	450	9	US-10-793-626-3226	Sequence 3226, Ap	462	25	61.0	1436	9	US-10-995-561-531	Sequence 531, App
390	25	61.0	452	11	US-11-096-568A-4748	Sequence 4748, Ap	463	25	61.0	1544	11	US-11-050-857-943	Sequence 943, App
391	25	61.0	463	9	US-10-755-092-85	Sequence 25, App1	464	25	61.0	1566	9	US-10-821-234-901	Sequence 901, App
392	25	61.0	464	11	US-11-096-568A-4747	Sequence 4747, Ap	465	25	61.0	1658	11	US-11-050-857-942	Sequence 942, App
393	25	61.0	465	11	US-11-219-995-6	Sequence 6, App1	466	25	61.0	1658	11	US-11-050-857-935	Sequence 935, App
394	25	61.0	465	11	US-11-152-366-33	Sequence 33, App1	467	25	61.0	1673	11	US-11-050-857-936	Sequence 936, App
395	25	61.0	468	11	US-11-087-099-4058	Sequence 4058, Ap	468	25	61.0	1730	11	US-11-050-857-946	Sequence 946, App
396	25	61.0	469	11	US-11-045-004-1748	Sequence 1748, Ap	469	25	61.0	1822	8	US-10-505-928-700	Sequence 700, App
397	25	61.0	480	11	US-11-188-298-16081	Sequence 16081, A	470	25	61.0	1822	11	US-11-169-041-193	Sequence 193, App
398	25	61.0	481	11	US-11-227-177-1	Sequence 1, App1	471	25	61.0	1837	11	US-11-050-857-940	Sequence 940, App
399	25	61.0	485	11	US-11-264-096-1806	Sequence 1806, Ap	472	25	61.0	1874	9	US-10-821-334-1182	Sequence 1182, Ap
400	25	61.0	491	9	US-10-986-405-193	Sequence 193, App	473	25	61.0	1912	11	US-11-288-493-64	Sequence 64, App1
401	25	61.0	503	11	US-11-188-298-5829	Sequence 5829, Ap	474	25	61.0	1928	11	US-11-050-857-939	Sequence 939, App
402	25	61.0	503	11	US-11-188-298-13676	Sequence 13676, A	475	25	61.0	2065	11	US-11-050-857-945	Sequence 945, App
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404	25	61.0	515	11	US-11-188-298-939	Sequence 939, App	477	25	61.0	2097	11	US-11-050-857-941	Sequence 941, App
405	25	61.0	517	11	US-11-087-099-5113	Sequence 5113, Ap	478	25	61.0	2110	11	US-11-050-857-937	Sequence 937, App
406	25	61.0	535	11	US-11-188-298-1382	Sequence 1382, Ap	479	25	61.0	2110	11	US-11-050-857-938	Sequence 938, App
407	25	61.0	534	9	US-10-506-443A-36	Sequence 36, App1	480	25	61.0	2201	11	US-11-050-857-933	Sequence 933, App
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409	25	61.0	556	9	US-10-995-561-767	Sequence 767, App	482	25	61.0	2233	11	US-11-050-857-934	Sequence 934, App
410	25	61.0	556	11	US-11-124-367A-427	Sequence 427, App	483	25	61.0	3689	11	US-11-075-185-4	Sequence 4, App1
411	25	61.0	556	11	US-11-124-367A-428	Sequence 428, App	484	25	59.8	408	11	US-11-098-686-10339	Sequence 10339, A
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413	25	61.0	556	11	US-11-194-991-14	Sequence 14, App1	486	24	58.5	25	11	US-11-149-737-8	Sequence 8, App1
414	25	61.0	561	9	US-10-506-443A-34	Sequence 34, App1	487	24	58.5	45	9	US-10-957-687B-86	Sequence 86, App1
415	25	61.0	568	9	US-10-506-443A-30	Sequence 30, App1	488	24	58.5	64	11	US-11-087-099-1090	Sequence 12090, A
416	25	61.0	569	9	US-10-506-443A-35	Sequence 35, App1	489	24	58.5	83	9	US-10-934-944-349	Sequence 349, App
417	25	61.0	569	11	US-11-188-298-21293	Sequence 21293, A	490	24	58.5	83	9	US-10-934-944-350	Sequence 350, App
418	25	61.0	574	11	US-11-024-959-300	Sequence 300, App	491	24	58.5	83	9	US-10-934-944-351	Sequence 351, App
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420	25	61.0	587	11	US-11-079-463-8026	Sequence 8026, Ap	493	24	58.5	83	11	US-11-116-881A-2246	Sequence 2246, Ap
421	25	61.0	598	11	US-11-055-822-820	Sequence 820, App	494	24	58.5	83	11	US-11-116-881A-2247	Sequence 2247, Ap
422	25	61.0	601	9	US-10-944-272-3	Sequence 3, App1	495	24	58.5	83	11	US-11-116-881A-2248	Sequence 2248, Ap
423	25	61.0	601	11	US-11-096-191-720	Sequence 720, App	496	24	58.5	83	11	US-11-116-881A-2249	Sequence 2249, Ap
424	25	61.0	624	11	US-11-079-463-7504	Sequence 7504, Ap	497	24	58.5	84	11	US-11-116-881A-526	Sequence 526, App
425	25	61.0	625	11	US-11-055-822-522	Sequence 522, App	498	24	58.5	88	11	US-11-045-004-2186	Sequence 2186, Ap
426	25	61.0	628	11	US-11-079-463-8053	Sequence 8053, Ap	499	24	58.5	96	11	US-11-053-076-186	Sequence 186, App
427	25	61.0	651	11	US-11-098-686-11428	Sequence 11428, A	500	24	58.5	104	11	US-11-053-076-155	Sequence 155, App
428	25	61.0	654	11	US-11-169-041-186	Sequence 186, App	501	24	58.5	118	11	US-11-264-096-1578	Sequence 1578, Ap
429	25	61.0	660	9	US-10-131-826A-350	Sequence 350, App	502	24	58.5	127	11	US-11-045-004-2477	Sequence 2477, Ap
430	25	61.0	660	9	US-10-973-1158-350	Sequence 350, App	503	24	58.5	138	11	US-11-188-298-17973	Sequence 17973, A
431	25	61.0	660	9	US-10-137-873A-350	Sequence 350, App	504	24	58.5	142	9	US-10-986-405-221	Sequence 221, App
432	25	61.0	660	9	US-10-152-370-350	Sequence 350, App	505	24	58.5	150	11	US-11-087-099-11134	Sequence 11134, A
433	25	61.0	660	11	US-11-290-153-350	Sequence 350, App	506	24	58.5	153	11	US-11-045-004-413	Sequence 413, App
434	25	61.0	692	11	US-11-096-568A-12831	Sequence 12831, A	507	24	58.5	155	9	US-10-793-626-3088	Sequence 3088, App
435	25	61.0	692	11	US-11-188-298-9802	Sequence 9802, Ap	508	24	58.5	159	11	US-11-079-463-5416	Sequence 5416, App
436	25	61.0	709	9	US-10-505-928-351	Sequence 351, App	509	24	58.5	165	9	US-10-467-657-7992	Sequence 7992, Ap
437	25	61.0	709	9	US-10-469-469-329	Sequence 329, App	510	24	58.5	165	11	US-10-467-657-7992	Sequence 12898, A
438	25	61.0	745	11	US-11-096-568A-12830	Sequence 12830, A	511	24	58.5	165	11	US-11-096-568A-12898	Sequence 12897, A
439	25	61.0	779	11	US-11-045-004-1137	Sequence 1137, Ap	512	24	58.5	168	11	US-11-096-568A-12897	Sequence 11282, A
440	25	61.0	810	11	US-11-079-463-9341	Sequence 9341, Ap	513	24	58.5	171	11	US-11-188-298-11282	Sequence 9804, App
441	25	61.0	829	11	US-11-194-246-296	Sequence 296, App	514	24	58.5	174	11	US-11-087-099-9804	Sequence 9804, App
442	25	61.0	840	9	US-10-645-441-1	Sequence 1, App1	515	24	58.5	176	11	US-11-126-022-27	Sequence 27, App1
443	25	61.0	840	9	US-10-725-475-16	Sequence 16, App1	516	24	58.5	178	11	US-11-188-298-1524	Sequence 1624, Ap
444	25	61.0	842	9	US-10-645-441-2	Sequence 2, App1	517	24	58.5	183	11	US-11-079-463-7409	Sequence 7409, Ap
445	25	61.0	855	9	US-10-714-995-14	Sequence 14, App1	518	24	58.5	186	9	US-10-793-626-3004	Sequence 3004, Ap
446	25	61.0	970	11	US-11-050-857-950	Sequence 950, App	519	24	58.5	188	9	US-10-467-657-920	Sequence 920, App
447	25	61.0	977	11	US-11-072-512-2552	Sequence 2552, Ap	520	24	58.5	196	11	US-11-093-746A-82	Sequence 2, App1
448	25	61.0	989	11	US-11-079-463-7130	Sequence 7130, Ap	521	24	58.5	196	11	US-11-072-512-2371	Sequence 2371, Ap
449	25	61.0	993	11	US-11-087-099-707	Sequence 707, App	522	24	58.5	200	9	US-10-506-454-875	Sequence 875, App
450	25	61.0	1022	11	US-11-186-284-163	Sequence 163, App	523	24	58.5	203	9	US-10-506-454-801	Sequence 801, App
451	25	61.0	1022	11	US-11-072-175-244	Sequence 244, App	524	24	58.5	204	11	US-11-087-099-6712	Sequence 6712, Ap
452	25	61.0	1083	11	US-11-050-857-949	Sequence 949, App	525	24	58.5	205	11	US-11-127-622-3	Sequence 3, App1
453	25	61.0	1167	9	US-10-601-368-18	Sequence 18, App1	526	24	58.5	206	11	US-11-188-298-10048	Sequence 10048, A
454	25	61.0	1254	9	US-10-528-031-47	Sequence 47, App1	527	24	58.5	206	11	US-11-188-298-18342	Sequence 18342, A
455	25	61.0	1292	11	US-11-050-857-948	Sequence 948, App	528	24	58.5	209	9	US-10-986-405-347	Sequence 347, App
456	25	61.0	1340	11	US-11-098-686-11135	Sequence 11135, A	529	24	58.5	209	9	US-11-096-568A-15966	Sequence 15966, Ap
457	25	61.0	1346	11	US-11-050-857-947	Sequence 947, App	530	24	58.5	212	11	US-11-098-686-11211	Sequence 11211, A
458	25	61.0	1405	9	US-10-995-561-529	Sequence 529, App	531	24	58.5	213	11	US-11-098-686-11211	Sequence 530, App
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534	24	58.5	232	11	US-11-096-568A-15965	Sequence 15966, A
535	24	58.5	232	11	US-11-096-568A-23415	Sequence 23415, A
536	24	58.5	233	11	US-11-096-568A-10748	Sequence 10748, A
537	24	58.5	234	9	US-10-491-468-22	Sequence 22, Appl
538	24	58.5	240	11	US-11-212-443-166	Sequence 166, App
539	24	58.5	241	11	US-11-096-568A-15109	Sequence 15109, A
540	24	58.5	242	11	US-11-096-568A-8621	Sequence 8621, Ap
541	24	58.5	248	11	US-11-096-568A-4123	Sequence 4123, Ap
542	24	58.5	249	9	US-10-793-626-3298	Sequence 3298, Ap
543	24	58.5	250	11	US-11-087-099-10551	Sequence 10551, A
544	24	58.5	251	9	US-10-644-887-309	Sequence 309, App
545	24	58.5	251	11	US-11-087-099-1098	Sequence 1098, Ap
546	24	58.5	252	11	US-11-096-568A-15108	Sequence 15108, A
547	24	58.5	255	11	US-11-188-298-19575	Sequence 19575, A
548	24	58.5	256	11	US-11-055-822-1140	Sequence 1140, Ap
549	24	58.5	256	11	US-11-124-291-2	Sequence 2, Appl
550	24	58.5	257	11	US-11-188-298-15238	Sequence 15238, A
551	24	58.5	260	11	US-11-098-568A-11239	Sequence 11239, A
552	24	58.5	261	11	US-11-177-790-2	Sequence 2, Appl
553	24	58.5	265	9	US-10-498-026-103	Sequence 103, App
554	24	58.5	265	11	US-11-077-619-124	Sequence 124, App
555	24	58.5	265	11	US-11-087-099-1329	Sequence 1329, Ap
556	24	58.5	265	11	US-11-087-099-7537	Sequence 7537, Ap
557	24	58.5	267	11	US-11-087-099-5252	Sequence 5252, Ap
558	24	58.5	270	9	US-10-644-807-404	Sequence 404, App
559	24	58.5	276	11	US-11-087-099-2506	Sequence 2506, Ap
560	24	58.5	276	11	US-11-096-568A-26244	Sequence 26244, A
561	24	58.5	277	11	US-11-096-568A-26243	Sequence 26243, A
562	24	58.5	279	11	US-11-087-099-4795	Sequence 4795, Ap
563	24	58.5	280	9	US-10-000-997-49	Sequence 49, Appl
564	24	58.5	281	11	US-11-934-944-387	Sequence 387, App
565	24	58.5	281	11	US-11-116-881A-2298	Sequence 2298, Ap
566	24	58.5	282	11	US-11-096-568A-10623	Sequence 10623, A
567	24	58.5	286	11	US-11-096-568A-23414	Sequence 23414, A
568	24	58.5	288	11	US-11-096-568A-10622	Sequence 10622, A
569	24	58.5	294	11	US-11-096-568A-15964	Sequence 15964, A
570	24	58.5	294	11	US-11-096-568A-23413	Sequence 23413, A
571	24	58.5	296	11	US-11-096-568A-10747	Sequence 10747, A
572	24	58.5	296	11	US-11-045-004-1949	Sequence 1949, Ap
573	24	58.5	297	11	US-11-138-949-6	Sequence 6, Appl
574	24	58.5	298	11	US-11-138-949-9	Sequence 9, Appl
575	24	58.5	302	7	US-09-978-360A-407	Sequence 407, App
576	24	58.5	303	11	US-11-045-004-1069	Sequence 1069, Ap
577	24	58.5	310	11	US-11-096-568A-26383	Sequence 26383, A
578	24	58.5	313	11	US-11-156-084-352	Sequence 352, App
579	24	58.5	315	11	US-11-087-099-9820	Sequence 9820, Ap
580	24	58.5	318	9	US-10-454-437-6	Sequence 6, Appl
581	24	58.5	319	9	US-10-454-437-4	Sequence 4, Appl
582	24	58.5	319	11	US-11-087-099-2924	Sequence 2924, Ap
583	24	58.5	324	11	US-11-087-099-4100	Sequence 4100, A
584	24	58.5	324	11	US-11-087-099-10680	Sequence 10680, A
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586	24	58.5	325	11	US-11-087-099-9929	Sequence 9929, Ap
587	24	58.5	329	11	US-11-087-099-6390	Sequence 6390, Ap
588	24	58.5	331	9	US-10-793-626-3256	Sequence 3256, Ap
589	24	58.5	331	11	US-11-087-099-8831	Sequence 8831, Ap
590	24	58.5	332	11	US-11-045-004-1157	Sequence 1157, Ap
591	24	58.5	335	9	US-10-506-454-831	Sequence 831, App
592	24	58.5	335	11	US-11-079-463-7085	Sequence 7085, Ap
593	24	58.5	336	9	US-10-506-454-1561	Sequence 1561, Ap
594	24	58.5	336	11	US-11-087-099-3797	Sequence 3797, Ap
595	24	58.5	338	9	US-10-501-035-264	Sequence 264, App
596	24	58.5	338	9	US-10-506-454-611	Sequence 611, App
597	24	58.5	338	11	US-11-087-099-8709	Sequence 8709, Ap
598	24	58.5	342	11	US-11-096-568A-10621	Sequence 10621, A
599	24	58.5	344	11	US-11-052-554A-43	Sequence 43, Appl
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602	24	58.5	353	11	US-11-087-099-6584	Sequence 6584, Ap
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604	24	58.5	354	11	US-11-096-568A-26382	Sequence 26382, A
605	24	58.5	354	11	US-11-079-463-6810	Sequence 6810, Ap
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608	24	58.5	357	11	US-11-264-728-44	Sequence 44, Appl
609	24	58.5	357	11	US-11-188-298-814	Sequence 814, App
610	24	58.5	359	11	US-11-012-762-58	Sequence 58, Appl
611	24	58.5	361	11	US-11-012-762-42	Sequence 42, Appl
612	24	58.5	364	11	US-11-012-762-38	Sequence 38, Appl
613	24	58.5	364	11	US-11-087-099-8047	Sequence 8047, Ap
614	24	58.5	366	11	US-11-087-099-5382	Sequence 5382, Ap
615	24	58.5	367	11	US-11-012-762-36	Sequence 36, Appl
616	24	58.5	367	11	US-11-117-169-12	Sequence 12, Appl
617	24	58.5	372	11	US-11-045-004-213	Sequence 213, App
618	24	58.5	374	11	US-11-045-004-895	Sequence 895, App
619	24	58.5	376	11	US-11-012-762-10	Sequence 10, Appl
620	24	58.5	376	11	US-11-012-762-16	Sequence 16, Appl
621	24	58.5	376	11	US-11-012-762-18	Sequence 18, Appl
622	24	58.5	376	11	US-11-012-762-20	Sequence 20, Appl
623	24	58.5	376	11	US-11-012-762-22	Sequence 22, Appl
624	24	58.5	376	11	US-11-012-762-24	Sequence 24, Appl
625	24	58.5	376	11	US-11-012-762-40	Sequence 40, Appl
626	24	58.5	376	11	US-11-072-512-2623	Sequence 2623, Ap
627	24	58.5	380	11	US-11-188-298-1262	Sequence 1262, Ap
628	24	58.5	383	9	US-10-485-517-356	Sequence 356, App
629	24	58.5	384	8	US-10-505-928-395	Sequence 395, App
630	24	58.5	385	9	US-10-467-657-112	Sequence 312, App
631	24	58.5	385	9	US-10-467-657-1676	Sequence 3676, Ap
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637	24	58.5	392	11	US-11-096-568A-20642	Sequence 20642, A
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639	24	58.5	393	11	US-11-188-298-7822	Sequence 7822, Ap
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641	24	58.5	394	11	US-11-096-568A-8620	Sequence 8620, Ap
642	24	58.5	394	11	US-11-045-004-1365	Sequence 1365, Ap
643	24	58.5	395	11	US-11-087-099-12132	Sequence 12132, A
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648	24	58.5	400	11	US-11-117-169-4	Sequence 4, Appl
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654	24	58.5	421	11	US-11-018-868-2	Sequence 2, Appl
655	24	58.5	427	11	US-11-188-298-8095	Sequence 8095, Ap
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657	24	58.5	428	11	US-11-127-422-2	Sequence 2, Appl
658	24	58.5	428	11	US-11-127-422-2	Sequence 730, Appl
659	24	58.5	429	11	US-11-188-298-8380	Sequence 8380, Ap
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664	24	58.5	437	11	US-11-194-246-121	Sequence 324, App
665	24	58.5	437	11	US-11-096-568A-20640	Sequence 20640, A
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672	24	58.5	455	9	US-10-847-867-28	Sequence 29, Appl
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674	24	58.5	455	9	US-10-847-867-30	Sequence 31, Appl
675	24	58.5	455	9	US-10-847-867-31	Sequence 32, Appl
676	24	58.5	455	9	US-10-847-867-32	Sequence 33, Appl
677	24	58.5	455	9	US-10-847-867-33	Sequence 34, Appl
678	24	58.5	455	9	US-10-847-867-34	Sequence 34, Appl

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681	24	58.5	465	11	US-11-264-096-310	Sequence 310, App	754	24	58.5	611	11	US-11-188-298-14425	Sequence 14425, A
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684	24	58.5	477	11	US-11-079-463-5771	Sequence 5771, Ap	757	24	58.5	625	9	US-10-793-626-2464	Sequence 2464, Ap
685	24	58.5	480	9	US-10-847-867-3	Sequence 3, Appl	758	24	58.5	632	9	US-10-063-703-40	Sequence 40, Appl
686	24	58.5	481	9	US-11-087-099-7519	Sequence 7519, Ap	759	24	58.5	632	9	US-10-506-454-719	Sequence 719, App
687	24	58.5	481	11	US-11-188-298-1371	Sequence 1371, Ap	760	24	58.5	632	9	US-10-194-487-166	Sequence 166, App
688	24	58.5	482	11	US-11-096-568A-8410	Sequence 8410, Ap	761	24	58.5	632	9	US-10-195-883-166	Sequence 166, App
689	24	58.5	486	11	US-11-188-298-3395	Sequence 3395, Ap	762	24	58.5	632	9	US-10-195-888-166	Sequence 166, App
690	24	58.5	487	11	US-11-087-099-3264	Sequence 3264, Ap	763	24	58.5	632	9	US-10-195-889-166	Sequence 166, App
691	24	58.5	489	11	US-11-098-686-10161	Sequence 10161, A	764	24	58.5	632	11	US-11-102-240-40	Sequence 40, Appl
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693	24	58.5	492	9	US-10-793-626-1276	Sequence 1276, Ap	766	24	58.5	637	11	US-11-098-688-10653	Sequence 10653, A
694	24	58.5	492	9	US-10-467-657-1804	Sequence 1804, Ap	767	24	58.5	639	9	US-10-514-626-2	Sequence 2, Appl1
695	24	58.5	492	9	US-10-934-944-242	Sequence 242, App	768	24	58.5	640	11	US-11-212-443-20	Sequence 20, Appl
696	24	58.5	492	11	US-11-116-881A-251	Sequence 251, App	769	24	58.5	650	11	US-11-188-298-459	Sequence 459, App
697	24	58.5	495	9	US-10-934-944-244	Sequence 244, App	770	24	58.5	654	9	US-10-194-487-26	Sequence 26, Appl
698	24	58.5	495	9	US-10-934-944-252	Sequence 252, App	771	24	58.5	654	9	US-10-195-883-26	Sequence 26, Appl
699	24	58.5	495	11	US-11-116-881A-253	Sequence 253, App	772	24	58.5	654	9	US-10-195-888-26	Sequence 26, Appl
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703	24	58.5	510	11	US-11-087-099-4252	Sequence 4252, Ap	776	24	58.5	672	9	US-10-915-002-333	Sequence 333, App
704	24	58.5	510	11	US-11-188-298-14373	Sequence 14373, A	777	24	58.5	680	11	US-11-245-400-27	Sequence 27, Appl
705	24	58.5	511	11	US-11-087-099-3587	Sequence 3587, Ap	778	24	58.5	687	11	US-11-117-189-6	Sequence 6, Appl1
706	24	58.5	511	11	US-11-087-099-12361	Sequence 12361, A	779	24	58.5	693	11	US-11-096-568A-31644	Sequence 31644, A
707	24	58.5	511	11	US-11-188-298-113081	Sequence 13081, A	780	24	58.5	702	11	US-11-072-512-3021	Sequence 3021, Ap
708	24	58.5	511	11	US-11-188-298-21127	Sequence 21127, A	781	24	58.5	712	9	US-10-595-561-984	Sequence 984, App
709	24	58.5	519	11	US-11-096-568A-17021	Sequence 17021, A	782	24	58.5	724	9	US-10-131-826A-60	Sequence 60, Appl
710	24	58.5	519	11	US-11-096-568A-17069	Sequence 17069, A	783	24	58.5	724	9	US-10-973-1155-60	Sequence 60, Appl
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712	24	58.5	521	11	US-11-096-568A-17068	Sequence 17068, A	785	24	58.5	724	9	US-10-152-370-60	Sequence 60, Appl
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714	24	58.5	524	9	US-10-506-454-271	Sequence 271, App	787	24	58.5	727	11	US-11-117-169-8	Sequence 8, Appl1
715	24	58.5	525	11	US-11-024-959-448	Sequence 448, App	788	24	58.5	737	9	US-10-055-877-156	Sequence 156, Appl
716	24	58.5	525	11	US-11-079-463-9449	Sequence 9449, Ap	789	24	58.5	758	9	US-10-467-9629-12	Sequence 12, Appl
717	24	58.5	539	9	US-10-514-250A-28	Sequence 28, Appl	790	24	58.5	758	11	US-11-188-298-10348	Sequence 10348, A
718	24	58.5	539	9	US-10-514-250A-29	Sequence 29, Appl	791	24	58.5	760	11	US-11-087-099-1634	Sequence 1634, Ap
719	24	58.5	539	9	US-10-514-250A-30	Sequence 30, Appl	792	24	58.5	760	11	US-11-087-099-9073	Sequence 9073, Ap
720	24	58.5	539	9	US-10-514-250A-31	Sequence 31, Appl	793	24	58.5	761	11	US-11-212-443-22	Sequence 22, Appl
721	24	58.5	539	9	US-10-514-250A-32	Sequence 32, Appl	794	24	58.5	769	8	US-10-511-937-3015	Sequence 3015, Ap
722	24	58.5	539	9	US-10-514-250A-33	Sequence 33, Appl	795	24	58.5	769	9	US-10-995-561-985	Sequence 985, App
723	24	58.5	539	9	US-10-514-250A-34	Sequence 34, Appl	796	24	58.5	769	9	US-10-995-561-986	Sequence 986, App
724	24	58.5	540	11	US-11-212-443-167	Sequence 167, App	797	24	58.5	769	11	US-11-079-463-9209	Sequence 9209, Ap
725	24	58.5	540	11	US-11-212-443-168	Sequence 21, Appl	798	24	58.5	784	9	US-10-467-657-5968	Sequence 5968, Ap
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727	24	58.5	542	11	US-11-087-099-6916	Sequence 6916, Ap	800	24	58.5	797	11	US-11-154-227-112	Sequence 112, App
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731	24	58.5	547	11	US-11-096-568A-17020	Sequence 17020, A	804	24	58.5	802	9	US-10-242-902-78	Sequence 78, Appl
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737	24	58.5	556	11	US-11-096-568A-28667	Sequence 28667, A	810	24	58.5	802	9	US-10-243-304-78	Sequence 78, Appl
738	24	58.5	557	9	US-10-821-234-1593	Sequence 1593, Ap	811	24	58.5	802	9	US-10-243-304-78	Sequence 78, Appl
739	24	58.5	562	11	US-11-096-568A-28666	Sequence 28666, A	812	24	58.5	802	9	US-10-243-304-78	Sequence 78, Appl
740	24	58.5	562	11	US-11-079-463-5760	Sequence 5760, Ap	813	24	58.5	802	9	US-10-243-345-78	Sequence 78, Appl
741	24	58.5	566	11	US-11-096-568A-8408	Sequence 8408, Ap	814	24	58.5	802	9	US-10-243-357-78	Sequence 78, Appl
742	24	58.5	575	11	US-11-188-298-5709	Sequence 5709, Ap	815	24	58.5	802	9	US-10-245-083-78	Sequence 78, Appl
743	24	58.5	575	11	US-11-188-298-14037	Sequence 14037, A	816	24	58.5	802	9	US-10-247-015-78	Sequence 78, Appl
744	24	58.5	578	11	US-11-087-099-1173	Sequence 1173, Ap	817	24	58.5	813	11	US-11-079-463-6867	Sequence 6867, Ap
745	24	58.5	579	11	US-11-072-512-2360	Sequence 2360, Ap	818	24	58.5	815	11	US-11-147-047-31	Sequence 31, Appl
746	24	58.5	583	11	US-11-013-592-42	Sequence 42, Appl	819	24	58.5	820	11	US-11-096-568A-28102	Sequence 28102, A
747	24	58.5	585	9	US-10-763-712A-14	Sequence 14, Appl	820	24	58.5	820	11	US-11-022-565-217	Sequence 217, App
748	24	58.5	585	9	US-10-763-712A-96	Sequence 96, Appl	821	24	58.5	821	11	US-11-096-568A-28101	Sequence 28101, A
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826	24	58.5	900	11	US-11-144-987-10	Sequence 10, Appl	899	24	58.5	2432	9	US-10-821-234-899	Sequence 899, App
827	24	58.5	900	11	US-11-205-935-4	Sequence 4, Appl1	900	24	58.5	2542	11	US-11-124-367A-353	Sequence 353, App
828	24	58.5	900	11	US-11-205-935-10	Sequence 10, Appl	901	24	58.5	2641	9	US-10-877-346-63	Sequence 63, Appl
829	24	58.5	902	11	US-11-144-987-6	Sequence 6, Appl1	902	24	58.5	2766	9	US-10-877-346-62	Sequence 62, Appl
830	24	58.5	902	11	US-11-144-987-8	Sequence 8, Appl1	903	24	58.5	2811	9	US-10-877-346-27	Sequence 27, Appl
831	24	58.5	902	11	US-11-144-987-12	Sequence 12, Appl	904	24	58.5	2814	9	US-10-877-346-25	Sequence 25, Appl
832	24	58.5	902	11	US-11-144-987-14	Sequence 14, Appl	905	24	58.5	3712	11	US-11-019-711-48	Sequence 48, Appl
833	24	58.5	902	11	US-11-205-935-6	Sequence 6, Appl1	906	24	58.5	3712	11	US-11-019-711-51	Sequence 51, Appl
834	24	58.5	902	11	US-11-205-935-8	Sequence 8, Appl1	907	24	58.5	4594	9	US-10-784-004-704	Sequence 353, App
835	24	58.5	902	11	US-11-205-935-12	Sequence 12, Appl	908	24	58.5	4644	9	US-10-784-004-383	Sequence 48, Appl
836	24	58.5	904	11	US-10-967-648A-14	Sequence 14, Appl1	909	24	58.5	7102	11	US-11-143-980-48	Sequence 49, Appl
837	24	58.5	910	11	US-11-144-987-2	Sequence 2, Appl1	910	24	58.5	7968	11	US-11-143-980-49	Sequence 6108, App
838	24	58.5	910	11	US-11-205-935-2	Sequence 31020, A	911	23.5	57.3	355	11	US-11-079-463-6108	Sequence 6108, App
839	24	58.5	927	11	US-11-096-568A-31020	Sequence 8, Appl1	912	23.5	57.3	342	11	US-11-031-206-110	Sequence 110, App
840	24	58.5	943	11	US-11-113-302-8	Sequence 3324, Ap	913	23	56.1	9	9	US-10-530-061-807	Sequence 807, App
841	24	58.5	944	9	US-10-793-626-324	Sequence 68, Appl	914	23	56.1	14	11	US-10-530-061-186	Sequence 486, App
842	24	58.5	948	9	US-10-523-503-68	Sequence 357, App	915	23	56.1	15	9	US-10-530-061-2520	Sequence 2520, Ap
843	24	58.5	950	9	US-10-501-035-357	Sequence 238, App	916	23	56.1	20	11	US-10-530-061-1878	Sequence 1878, App
844	24	58.5	997	9	US-10-501-035-238	Sequence 37, Appl	917	23	56.1	25	11	US-11-022-562-154	Sequence 154, App
845	24	58.5	1005	11	US-11-113-424-37	Sequence 31019, A	918	23	56.1	43	11	US-11-004-399-3176	Sequence 3176, App
846	24	58.5	1005	11	US-11-096-568A-31019	Sequence 31019, A	919	23	56.1	36	11	US-11-166-031-6	Sequence 6, Appl1
847	24	58.5	1007	11	US-11-096-568A-31018	Sequence 31018, A	920	23	56.1	43	11	US-11-154-227-81	Sequence 81, Appl
848	24	58.5	1014	11	US-11-188-298-10090	Sequence 10090, A	921	23	56.1	62	11	US-11-188-298-16168	Sequence 16168, A
849	24	58.5	1031	11	US-11-096-568A-30064	Sequence 30064, A	922	23	56.1	64	11	US-11-123-896-158	Sequence 158, App
850	24	58.5	1039	9	US-10-915-002-331	Sequence 321, App	923	23	56.1	64	11	US-11-188-298-3152	Sequence 3152, Ap
851	24	58.5	1039	9	US-10-915-002-332	Sequence 322, App	924	23	56.1	65	11	US-11-188-298-18615	Sequence 18615, A
852	24	58.5	1039	9	US-10-915-002-323	Sequence 323, App	925	23	56.1	68	11	US-11-123-896-146	Sequence 146, App
853	24	58.5	1039	9	US-10-915-002-323	Sequence 15, Appl	926	23	56.1	71	11	US-11-123-896-140	Sequence 140, App
854	24	58.5	1051	9	US-10-204-639-15	Sequence 10, Appl	927	23	56.1	72	11	US-11-123-896-164	Sequence 143, App
855	24	58.5	1087	11	US-11-117-169-10	Sequence 352, App	928	23	56.1	72	11	US-11-123-896-149	Sequence 149, App
856	24	58.5	1096	11	US-11-096-568A-30063	Sequence 352, App	929	23	56.1	72	11	US-11-123-896-173	Sequence 152, App
857	24	58.5	1119	9	US-10-131-826A-352	Sequence 352, App	930	23	56.1	72	11	US-11-123-896-152	Sequence 155, App
858	24	58.5	1119	9	US-10-973-115B-352	Sequence 352, App	931	23	56.1	72	11	US-11-123-896-155	Sequence 161, App
859	24	58.5	1119	9	US-10-137-873A-352	Sequence 352, App	932	23	56.1	72	11	US-11-123-896-161	Sequence 164, App
860	24	58.5	1119	9	US-10-152-370-352	Sequence 352, App	933	23	56.1	72	11	US-11-123-896-161	Sequence 167, App
861	24	58.5	1119	11	US-11-290-153-352	Sequence 352, App	934	23	56.1	72	11	US-11-123-896-161	Sequence 173, App
862	24	58.5	1124	11	US-11-096-568A-30062	Sequence 30062, A	935	23	56.1	72	11	US-11-123-896-176	Sequence 176, App
863	24	58.5	1137	11	US-11-012-762-70	Sequence 28, Appl	936	23	56.1	72	11	US-11-123-896-176	Sequence 179, App
864	24	58.5	1137	11	US-11-012-762-28	Sequence 611, App	937	23	56.1	72	11	US-11-123-896-176	Sequence 182, App
865	24	58.5	1137	11	US-11-012-762-28	Sequence 6, Appl1	938	23	56.1	72	11	US-11-123-896-191	Sequence 191, App
866	24	58.5	1210	11	US-11-113-202-6	Sequence 1, Appl1	939	23	56.1	72	11	US-11-123-896-191	Sequence 194, App
867	24	58.5	1210	11	US-11-145-566-6	Sequence 25, Appl	940	23	56.1	72	11	US-11-123-896-197	Sequence 197, App
868	24	58.5	1249	11	US-11-126-022-35	Sequence 30, Appl	941	23	56.1	72	11	US-11-123-896-200	Sequence 206, App
869	24	58.5	1249	11	US-11-126-022-30	Sequence 19369, A	942	23	56.1	72	11	US-11-123-896-206	Sequence 209, App
870	24	58.5	1320	11	US-11-188-298-19369	Sequence 17779, A	943	23	56.1	72	11	US-11-123-896-209	Sequence 8987, App
871	24	58.5	1322	11	US-11-188-298-17779	Sequence 254, App	944	23	56.1	72	11	US-11-098-568A-10819	Sequence 10819, A
872	24	58.5	1324	9	US-10-915-002-254	Sequence 324, App	945	23	56.1	77	11	US-11-140-284-17	Sequence 185, App
873	24	58.5	1324	9	US-10-915-002-324	Sequence 178, App	946	23	56.1	77	11	US-11-140-284-17	Sequence 1721, Ap
874	24	58.5	1381	9	US-10-467-657-178	Sequence 3726, Ap	947	23	56.1	85	11	US-11-123-896-185	Sequence 269, App
875	24	58.5	1381	9	US-10-467-657-3726	Sequence 113, App	948	23	56.1	85	11	US-11-123-896-185	Sequence 600, App
876	24	58.5	1450	11	US-11-019-711-113	Sequence 873, App	949	23	56.1	95	11	US-11-004-399-600	Sequence 4018, App
877	24	58.5	1474	9	US-10-995-561-873	Sequence 927, App	950	23	56.1	95	11	US-11-004-399-600	Sequence 561, App
878	24	58.5	1498	11	US-11-045-004-927	Sequence 62, Appl	951	23	56.1	95	11	US-11-004-399-600	Sequence 569, App
879	24	58.5	1532	11	US-11-212-443-62	Sequence 179, Appl	952	23	56.1	104	11	US-11-064-774A-561	Sequence 571, App
880	24	58.5	1574	11	US-11-212-443-179	Sequence 61, Appl	953	23	56.1	104	11	US-11-064-774A-569	Sequence 577, App
881	24	58.5	1608	9	US-10-877-346-61	Sequence 20, Appl	954	23	56.1	104	11	US-11-064-774A-571	Sequence 579, App
882	24	58.5	1681	11	US-11-019-711-20	Sequence 69, Appl	955	23	56.1	104	11	US-11-064-774A-577	Sequence 587, App
883	24	58.5	1697	11	US-11-019-711-68	Sequence 18, Appl	956	23	56.1	104	11	US-11-064-774A-577	Sequence 589, App
884	24	58.5	1723	11	US-11-019-711-18	Sequence 1635, Ap	957	23	56.1	104	11	US-11-064-774A-585	Sequence 593, App
885	24	58.5	1788	9	US-10-877-346-60	Sequence 630, App	958	23	56.1	104	11	US-11-064-774A-585	Sequence 595, App
886	24	58.5	1897	9	US-10-821-234-1635	Sequence 250, App	959	23	56.1	104	11	US-11-064-774A-587	Sequence 601, App
887	24	58.5	1907	11	US-11-000-463-250	Sequence 641, App	960	23	56.1	104	11	US-11-064-774A-587	Sequence 603, App
888	24	58.5	1940	9	US-10-784-004-641	Sequence 670, App	961	23	56.1	104	11	US-11-064-774A-593	Sequence 609, App
889	24	58.5	1940	9	US-10-784-004-670	Sequence 682, App	962	23	56.1	104	11	US-11-064-774A-593	Sequence 611, App
890	24	58.5	1940	9	US-10-784-004-682	Sequence 745, App	963	23	56.1	104	11	US-11-064-774A-601	Sequence 619, App
891	24	58.5	1940	9	US-10-784-004-745	Sequence 1045, Ap	964	23	56.1	104	11	US-11-064-774A-603	Sequence 625, App
892	24	58.5	1940	9	US-10-784-004-1045	Sequence 60, Appl	965	23	56.1	104	11	US-11-064-774A-609	Sequence 625, App
893	24	58.5	1978	11	US-11-212-443-60	Sequence 38, Appl	966	23	56.1	104	11	US-11-064-774A-611	Sequence 625, App
894	24	58.5	1981	11	US-11-045-208-38	Sequence 218, App	967	23	56.1	104	11	US-11-064-774A-617	Sequence 625, App
895	24	58.5	1985	9	US-10-501-035-218	Sequence 374, App	968	23	56.1	104	11	US-11-064-774A-619	Sequence 625, App
896	24	58.5	2015	11	US-11-052-554A-374	Sequence 364, App	969	23	56.1	104	11	US-11-064-774A-625	Sequence 625, App
897	24	58.5	2080	11	US-11-124-367A-364	Sequence 364, App	970	23	56.1	104	11	US-11-064-774A-625	Sequence 625, App

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971 23 56.1 104 11 US-11-064-774A-627 Sequence 627, App
972 23 56.1 104 11 US-11-064-774A-633 Sequence 633, App
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974 23 56.1 104 11 US-11-064-774A-641 Sequence 641, App
975 23 56.1 104 11 US-11-064-774A-643 Sequence 643, App
976 23 56.1 104 11 US-11-064-774A-649 Sequence 649, App
977 23 56.1 104 11 US-11-064-774A-651 Sequence 651, App
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982 23 56.1 104 11 US-11-064-774A-673 Sequence 673, App
983 23 56.1 104 11 US-11-064-774A-675 Sequence 675, App
984 23 56.1 104 11 US-11-064-774A-681 Sequence 681, App
985 23 56.1 104 11 US-11-064-774A-683 Sequence 683, App
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990 23 56.1 104 11 US-11-064-774A-1089 Sequence 1089, App
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995 23 56.1 104 11 US-11-064-774A-1107 Sequence 1107, App
996 23 56.1 104 11 US-11-064-774A-1113 Sequence 1113, App
997 23 56.1 104 11 US-11-064-774A-1115 Sequence 1115, App
998 23 56.1 104 11 US-11-064-774A-1121 Sequence 1121, App
999 23 56.1 104 11 US-11-064-774A-1123 Sequence 1123, App
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## ALIGNMENTS

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RESULT 1
US-10-530-253-15
; Sequence 15, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casabetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McShiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 18
US-10-530-253-15
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Query Match 100.0%; Score 41; DB 9; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.19;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 KTVLELTV 9
Db 36 KTVLELTV 44
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RESULT 2
US-11-096-568A-5439
; Sequence 5439, Application US/11096568A
; Publication No. US20060048240A1
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; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; PRIOR FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 5439
; LENGTH: 230
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(230)
; OTHER INFORMATION: Ceres Seq. ID no. 14309552
US-11-096-568A-5439
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Query Match 80.5%; Score 33; DB 11; Length 230;
Best Local Similarity 87.5%; Pred. No. 15;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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QY 1 KTVLELTV 8
Db 135 KTVLELTV 142
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RESULT 3
US-11-096-568A-5438
; Sequence 5438, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; PRIOR FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 5438
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(239)
; OTHER INFORMATION: Ceres Seq. ID no. 14309551
US-11-096-568A-5438
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Query Match 80.5%; Score 33; DB 11; Length 239;
Best Local Similarity 87.5%; Pred. No. 15;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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QY 1 KTVLELTV 8
Db 144 KTVLELTV 151
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RESULT 4
US-11-096-568A-5437
; Sequence 5437, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; PRIOR FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 5437
; LENGTH: 248
; TYPE: PRT
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ORGANISM: Glycine max  
FEATURE:  
NAME/KEY: misc.feature  
LOCATION: (1)\_(248)  
OTHER INFORMATION: Ceres Seq. ID no. 14309550  
US-11-096-568A-5437

Query Match 80.5%; Score 33; DB 11; Length 248;  
Best Local Similarity 87.5%; Pred. No. 16;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELSE 8  
Db 153 KTVLELSE 160

RESULT 5  
US-11-045-004-328  
Sequence 328, Application US/11045004  
Publication No. US20060078901A1  
GENERAL INFORMATION:  
APPLICANT: BUCHRISEER, CARMEN  
APPLICANT: FRANGOUL, LIONEL  
APPLICANT: COUVE, ELISABETH  
APPLICANT: RUSNIOK, CHRISTOPHE  
APPLICANT: FSIHI, HAFLDA  
APPLICANT: DEHOUX, PIERRE  
APPLICANT: DUSBURGET, OLIVIER  
APPLICANT: CHETOUANI, FARID  
APPLICANT: NEDJARI, HAFED  
APPLICANT: GLASER, PHILIPPE  
APPLICANT: KUNST, FRANCK  
APPLICANT: DANIELS, JUSTIN  
APPLICANT: GOEBEL, WERNER  
APPLICANT: KREFT, JURGEN  
APPLICANT: KUHN, MICHAEL  
APPLICANT: NG, EVA  
APPLICANT: VAZQUEZ-BOLAND, ANTONIO  
APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO  
APPLICANT: GARRIDO-GARCIA, PATRICIA  
APPLICANT: TIERREZ-MARTINEZ, ALBERTO  
APPLICANT: AMEND, ALEXANDRA  
APPLICANT: CHAKRABORTY, TRINAD  
APPLICANT: DOMANN, EUGEN  
APPLICANT: HAIN, THORSTEN  
APPLICANT: BERCHE, PATRICK  
APPLICANT: CHARBIT, ALAIN  
APPLICANT: DURANT, LIONEL  
APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO  
APPLICANT: BAQUERO, FERNANDO  
APPLICANT: GARCIA DEL PORTILLO, FRANCISCO  
APPLICANT: GOMEZ-LOPEZ, NURIA  
APPLICANT: MADUENIO, ENCARNADA  
APPLICANT: PABLOS, BETRIZ DE  
APPLICANT: MEHLAND, JURGEN  
APPLICANT: KARST, UWE  
APPLICANT: ENTIAN, KARL-DIETER  
APPLICANT: HAUF, JORG  
APPLICANT: ROSE, MATTHIAS  
APPLICANT: VOSS, HAMUT  
TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES  
FILE REFERENCE: 05394.0018-02  
CURRENT APPLICATION NUMBER: US/11/045,004  
PRIOR FILING DATE: 2005-01-28  
PRIOR APPLICATION NUMBER: 10/637,657  
PRIOR FILING DATE: 2003-08-11  
PRIOR APPLICATION NUMBER: 10/257,023  
PRIOR FILING DATE: 2002-10-08  
PRIOR APPLICATION NUMBER: PCT/FR01/01118  
PRIOR FILING DATE: 2001-04-11  
PRIOR APPLICATION NUMBER: FR 00/04,629  
PRIOR FILING DATE: 2000-04-11

NUMBER OF SEQ ID NOS: 2854  
SOFTWARE: Patentin version 3.3  
SEQ ID NO 328  
LENGTH: 481  
TYPE: PRT  
ORGANISM: Listeria monocytogenes  
US-11-045-004-328

Query Match 80.5%; Score 33; DB 11; Length 481;  
Best Local Similarity 77.8%; Pred. No. 35;  
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KTVLELSEV 9  
Db 238 KTVLELSEV 246

RESULT 6  
US-10-821-234-1458  
Sequence 1458, Application US/10821234  
Publication No. US2005025511A1  
GENERAL INFORMATION:  
APPLICANT: Labat, Ivan  
APPLICANT: Strache-Crain, Birgit  
APPLICANT: Andarmani, Susan  
APPLICANT: Tang, Y. Tom  
TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia  
FILE REFERENCE: 821A  
CURRENT APPLICATION NUMBER: US/10/821,234  
PRIOR FILING DATE: 2004-04-07  
CURRENT APPLICATION NUMBER: US 60/462,047  
PRIOR FILING DATE: 2003-04-07  
NUMBER OF SEQ ID NOS: 1704  
SOFTWARE: pc\_seq\_gene Version 1.0  
SEQ ID NO 1458  
LENGTH: 500  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-821-234-1458

Query Match 80.5%; Score 33; DB 9; Length 500;  
Best Local Similarity 87.5%; Pred. No. 37;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELSE 8  
Db 444 KTVLELSE 451

RESULT 7  
US-11-090-915-2  
Sequence 2, Application US/11090915  
Publication No. US20050288218A1  
GENERAL INFORMATION:  
APPLICANT: DAVIS, Alvin E. et al  
TITLE OF INVENTION: METHODS FOR TREATING AND PREVENTING  
SEPSIS USING MODIFIED C1 INHIBITOR OR  
TITLE OF INVENTION: FRAGMENTS THEREOF  
FILE REFERENCE: CBN-006CN  
CURRENT APPLICATION NUMBER: US/11/090,915  
PRIOR FILING DATE: 2005-03-24  
PRIOR APPLICATION NUMBER: PCT/US2003/030630  
PRIOR FILING DATE: 2003-09-25  
PRIOR APPLICATION NUMBER: 60/413341  
PRIOR FILING DATE: 2002-09-25  
NUMBER OF SEQ ID NOS: 10  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 2  
LENGTH: 500  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-11-090-915-2

Query Match 80.5%; Score 33; DB 11; Length 500;  
Best Local Similarity 87.5%; Pred. No. 37;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KTVLELTV 9  
Db 444 QTVLELTV 451

## RESULT 8

US-11-087-099-2202  
; Sequence 2202, Application US/11087099  
; Publication No. US20060041961A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: Genes and Uses for Plant Improvement  
; FILE REFERENCE: 38-21(53450) B EP  
; CURRENT APPLICATION NUMBER: US/11/087,099  
; CURRENT FILING DATE: 2005-03-22  
; NUMBER OF SEQ ID NOS: 12464  
; SEQ ID NO 2202  
; LENGTH: 496  
; TYPE: PRT  
; ORGANISM: Mentha spicata  
US-11-087-099-2202

Query Match 75.6%; Score 31; DB 11; Length 496;  
Best Local Similarity 66.7%; Pred. No. 97;  
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KTVLELTV 9  
Db 335 KTVVDLSEV 343

## RESULT 9

US-11-188-298-2151  
; Sequence 2151, Application US/11188298  
; Publication No. US20060075522A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
; FILE REFERENCE: 38-21(53452) B  
; CURRENT APPLICATION NUMBER: US/11/188,298  
; CURRENT FILING DATE: 2005-07-22  
; PRIOR APPLICATION NUMBER: 60/592,978  
; PRIOR FILING DATE: 2004-07-31  
; NUMBER OF SEQ ID NOS: 22569  
; SEQ ID NO 2151  
; LENGTH: 496  
; TYPE: PRT  
; ORGANISM: Mentha spicata  
US-11-188-298-2151

Query Match 75.6%; Score 31; DB 11; Length 496;  
Best Local Similarity 66.7%; Pred. No. 97;  
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KTVLELTV 9  
Db 335 KTVVDLSEV 343

## RESULT 10

US-10-506-454-111  
; Sequence 111, Application US/10506454  
; Publication No. US20060068386A1  
; GENERAL INFORMATION:  
; APPLICANT: Slegarev, Alek I  
; APPLICANT: Mezhevaya, Katja V  
; APPLICANT: Polushin, Nikolai N  
; APPLICANT: Shcherbina, Olga V  
; APPLICANT: Shakhova, Vera V

; APPLICANT: Malykh, Andrei G  
; APPLICANT: Kozvavkin, Sergei A  
; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile  
; TITLE OF INVENTION: Methanopyrus Kandleri AV19 and Monophily of Archaeal Methanogens  
; FILE REFERENCE: FID001  
; CURRENT APPLICATION NUMBER: US/10/506,454  
; CURRENT FILING DATE: 2004-08-31  
; PRIOR APPLICATION NUMBER: PCT/US03/06664  
; PRIOR FILING DATE: 2003-03-04  
; PRIOR APPLICATION NUMBER: 60/361,742  
; PRIOR FILING DATE: 2002-03-04  
; NUMBER OF SEQ ID NOS: 1722  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 111  
; LENGTH: 711  
; TYPE: PRT  
; ORGANISM: Methanopyrus kandleri  
US-10-506-454-111

Query Match 75.6%; Score 31; DB 9; Length 711;  
Best Local Similarity 77.8%; Pred. No. 1,5e+02;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KTVLELTV 9  
Db 649 KEMLELTV 657

## RESULT 11

US-10-330-773-82  
; Sequence 82, Application US/10330773  
; Publication No. US20060040262A1  
; GENERAL INFORMATION:  
; APPLICANT: David W. Morris  
; APPLICANT: Marc Malandro  
; TITLE OF INVENTION: Novel Compositions and Methods in Cancer  
; FILE REFERENCE: 52945200300  
; CURRENT APPLICATION NUMBER: US/10/330,773  
; CURRENT FILING DATE: 2002-12-27  
; NUMBER OF SEQ ID NOS: 981  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 82  
; LENGTH: 175  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-330-773-82

Query Match 73.2%; Score 30; DB 9; Length 175;  
Best Local Similarity 55.6%; Pred. No. 46;  
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KTVLELTV 9  
Db 165 KTVVDLSEI 173

## RESULT 12

US-10-793-626-3062  
; Sequence 3062, Application US/10793626  
; Publication No. US20050255478A1  
; GENERAL INFORMATION:  
; APPLICANT: KIMMERLY, WILLIAM JOHN  
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS  
; FILE REFERENCE: P03480US  
; CURRENT APPLICATION NUMBER: US/10/793,626  
; CURRENT FILING DATE: 2004-03-04  
; PRIOR APPLICATION NUMBER: 60/164,258  
; PRIOR FILING DATE: 1999-11-09  
; NUMBER OF SEQ ID NOS: 4472  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3062  
; LENGTH: 302



```

; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: amino acid sequence
US-10-793-626-3062
```

```

Query Match          73.2%; Score 30; DB 9; Length 302;
Best Local Similarity 55.6%; Pred. No. 87;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```

Qy      1 KTVLELREV 9
Db      170 KSULELTDI 178
```

```

RESULT 13
US-10-793-626-3086
; Sequence 3086, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMBERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; PRIOR FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3086
; LENGTH: 131
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: amino acid sequence
US-10-793-626-3086
```

```

Query Match          70.7%; Score 29; DB 9; Length 131;
Best Local Similarity 55.6%; Pred. No. 52;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
```

```

Qy      1 KTVLELREV 9
Db      97 KTVMDLMEI 105
```

```

RESULT 14
US-10-506-454-231
; Sequence 231, Application US/10506454
; Publication No. US20060068386A1
; GENERAL INFORMATION:
; APPLICANT: Slesarev, Alexi I
; APPLICANT: Mezhevaeva, Katja V
; APPLICANT: Polushin, Nikolai N
; APPLICANT: Shcherbinina, Olga V
; APPLICANT: Shakhova, Vera V
; APPLICANT: Mal'kh, Andrei G
; APPLICANT: Kozayavkin, Sergei A
; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile
; TITLE OF INVENTION: Methanopyrus kandleri AV19 and Monophyly of Archaeal Mechanogens
; TITLE OF INVENTION: and Methods of Use Thereof
; FILE REFERENCE: FID001
; CURRENT APPLICATION NUMBER: US/10/506,454
; PRIOR FILING DATE: 2004-08-31
; PRIOR APPLICATION NUMBER: PCT/US03/06664
; PRIOR FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: 60/361,742
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1722
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 231
```

```

; LENGTH: 180
; TYPE: PRT
; ORGANISM: Methanopyrus kandleri
US-10-506-454-231
```

```

Query Match          70.7%; Score 29; DB 9; Length 180;
Best Local Similarity 55.6%; Pred. No. 77;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
```

```

Qy      1 KTVLELREV 9
Db      6 KEVIDLDEI 14
```

```

RESULT 15
US-11-181-115-1
; Sequence 1, Application US/11181115
; Publication No. US2006008851A1
; GENERAL INFORMATION:
; APPLICANT: Dana Farber Cancer Center
; TITLE OF INVENTION: Cancer Therapy Sensitizer
; FILE REFERENCE: 7032/2072
; CURRENT APPLICATION NUMBER: US/11/181,115
; CURRENT FILING DATE: 2005-07-14
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: PCT/US04/000901
; PRIOR FILING DATE: 2003-01-14
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1
; LENGTH: 303
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-181-115-1
```

```

Query Match          70.7%; Score 29; DB 10; Length 303;
Best Local Similarity 66.7%; Pred. No. 1.4e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```

Qy      1 KTVLELREV 9
Db      33 ETVAEVTEV 41
```

```

RESULT 16
US-11-181-115-44
; Sequence 44, Application US/11181115
; Publication No. US2006008851A1
; GENERAL INFORMATION:
; APPLICANT: Dana Farber Cancer Center
; TITLE OF INVENTION: Cancer Therapy Sensitizer
; FILE REFERENCE: 7032/2072
; CURRENT APPLICATION NUMBER: US/11/181,115
; CURRENT FILING DATE: 2005-07-14
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: PCT/US04/000901
; PRIOR FILING DATE: 2003-01-14
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 44
; LENGTH: 303
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-181-115-44
```

```

Query Match          70.7%; Score 29; DB 10; Length 303;
Best Local Similarity 66.7%; Pred. No. 1.4e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```

Qy      1 KTVLELREV 9
Db      33 ETVAEVTEV 41
```

Db 33 ETVAEVTEV 41

```
RESULT 17
US-11-186-284-193
; Sequence 193, Application US/11186284
; Publication No. US20050266493A1
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: Berger, Allison
; APPLICANT: Guillemette, Tracy L.
; APPLICANT: Kamatkar, Shubhangi
; APPLICANT: Schlegel, Robert
; APPLICANT: Monahan, John E.
; APPLICANT: Thibodeau, Stephen N.
; APPLICANT: Burgart, Lawrence J.
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
; TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF COLON CANCER
; FILE REFERENCE: MPM01-029P2NM
; CURRENT APPLICATION NUMBER: US/11/186,284
; CURRENT FILING DATE: 2005-07-21
; PRIOR APPLICATION NUMBER: US/10/301,822
; PRIOR FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 60/339,971
; PRIOR FILING DATE: 2001-12-10
; PRIOR APPLICATION NUMBER: US 60/361,978
; PRIOR FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: US 60/381,988
; PRIOR FILING DATE: 2002-05-20
; NUMBER OF SEQ ID NOS: 228
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 193
; LENGTH: 303
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-11-186-284-193
```

Query Match 70.7%; Score 29; DB 11; Length 303;  
Best Local Similarity 66.7%; Pred. No. 1.4e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KTVLELTEV 9  
||:||||  
Db 33 ETVAEVTEV 41

```
RESULT 18
US-11-156-084-291
; Sequence 291, Application US/11156084
; Publication No. US20060010515A1
; GENERAL INFORMATION:
; APPLICANT: Monsanto Technology LLC
; TITLE OF INVENTION: Controlled expression of cytokinin biosynthetic genes leads to
; TITLE OF INVENTION: agronomically interesting phenotypes
; FILE REFERENCE: (38-21)
; CURRENT APPLICATION NUMBER: US/11/156,084
; CURRENT FILING DATE: 2005-06-17
; NUMBER OF SEQ ID NOS: 364
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 291
; LENGTH: 304
; TYPE: PRT
; ORGANISM: Vibrio vulnificus
US-11-156-084-291
```

Query Match 70.7%; Score 29; DB 11; Length 304;  
Best Local Similarity 75.0%; Pred. No. 1.4e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KTVLELTE 8  
||:||||  
.Db 165 KTLTELTE 172

```
RESULT 19
US-11-156-084-313
; Sequence 313, Application US/11156084
; Publication No. US20060010515A1
; GENERAL INFORMATION:
; APPLICANT: Monsanto Technology LLC
; TITLE OF INVENTION: Controlled expression of cytokinin biosynthetic genes leads to
; TITLE OF INVENTION: agronomically interesting phenotypes
; FILE REFERENCE: (38-21)
; CURRENT APPLICATION NUMBER: US/11/156,084
; CURRENT FILING DATE: 2005-06-17
; NUMBER OF SEQ ID NOS: 364
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 313
; LENGTH: 315
; TYPE: PRT
; ORGANISM: Vibrio vulnificus
US-11-156-084-313
```

Query Match 70.7%; Score 29; DB 11; Length 315;  
Best Local Similarity 75.0%; Pred. No. 1.5e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KTVLELTE 8  
||:||||  
Db 176 KTLTELTE 183

```
RESULT 20
US-11-156-084-353
; Sequence 353, Application US/11156084
; Publication No. US20060010515A1
; GENERAL INFORMATION:
; APPLICANT: Monsanto Technology LLC
; TITLE OF INVENTION: Controlled expression of cytokinin biosynthetic genes leads to
; TITLE OF INVENTION: agronomically interesting phenotypes
; FILE REFERENCE: (38-21)
; CURRENT APPLICATION NUMBER: US/11/156,084
; CURRENT FILING DATE: 2005-06-17
; NUMBER OF SEQ ID NOS: 364
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 353
; LENGTH: 315
; TYPE: PRT
; ORGANISM: Vibrio vulnificus YJ016
US-11-156-084-353
```

Query Match 70.7%; Score 29; DB 11; Length 315;  
Best Local Similarity 75.0%; Pred. No. 1.5e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KTVLELTE 8  
||:||||  
Db 176 KTLTELTE 183

```
RESULT 21
US-11-079-463-7965
; Sequence 7965, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRAC
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
```

NUMBER OF SEQ ID NOS: 10444  
SEQ ID NO 7965  
LENGTH: 358  
TYPE: PRT  
ORGANISM: B.fragilis  
US-11-079-463-7965

Query Match 70.7%; Score 29; DB 11; Length 358;  
Best Local Similarity 66.7%; Pred. No. 1.7e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KTVLEITEV 9  
|||: |||  
Db 313 KTKMLTEV 321

RESULT 22  
US-10-055-877-14  
Sequence 14, Application US/10055877  
Publication No. US20050288241A1  
GENERAL INFORMATION:  
APPLICANT: Decristofaro, Marc  
APPLICANT: Padigar, Muralidhara  
APPLICANT: Miller, Charles  
APPLICANT: Tchernev, Velizar  
APPLICANT: Zhong, Mei  
APPLICANT: Anderson, David  
APPLICANT: Ballinger, Robert  
APPLICANT: Gerlach, Valerie  
APPLICANT: Spytek, Kimberly  
APPLICANT: Ratelli, Luca  
APPLICANT: Kekuda, Ramesh  
APPLICANT: Guo, Xiaojia  
APPLICANT: Zernusen, Bryan  
APPLICANT: Andrew, David  
APPLICANT: Mezes, Peter  
APPLICANT: Patutajan, Meera  
APPLICANT: Burgess, Catherine  
APPLICANT: Eissen, Andrew  
APPLICANT: Wolenc, Adam  
APPLICANT: Baumgartner, Jason  
APPLICANT: Shinkets, Richard  
APPLICANT: Gusev, Vladimir  
APPLICANT: Vernet, Corine  
APPLICANT: Taupier Jr., Raymond  
APPLICANT: Pena, Carol  
APPLICANT: Shenoy, Suresh  
APPLICANT: Li, Li  
APPLICANT: Casman, Stacie  
APPLICANT: Boldog, Ferenc  
TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoded Thereby  
FILE REFERENCE: 21402-251  
CURRENT APPLICATION NUMBER: US/10/055,877  
CURRENT FILING DATE: 2002-01-22  
PRIOR APPLICATION NUMBER: 60/262,892  
PRIOR FILING DATE: 2001-01-19  
PRIOR APPLICATION NUMBER: 60/263,598  
PRIOR FILING DATE: 2001-01-23  
PRIOR APPLICATION NUMBER: 60/263,799  
PRIOR FILING DATE: 2001-01-24  
PRIOR APPLICATION NUMBER: 60/264,117  
PRIOR FILING DATE: 2001-01-25  
PRIOR APPLICATION NUMBER: 60/264,139  
PRIOR FILING DATE: 2001-01-25  
PRIOR APPLICATION NUMBER: 60/264,478  
PRIOR FILING DATE: 2001-01-26  
PRIOR APPLICATION NUMBER: 60/263,351  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: 60/272,870  
PRIOR FILING DATE: 2001-03-02  
PRIOR APPLICATION NUMBER: 60/275,990  
PRIOR FILING DATE: 2001-03-14  
PRIOR APPLICATION NUMBER: 60/275,927

PRIOR FILING DATE: 2001-03-14  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 512  
SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 14  
LENGTH: 363  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-055-877-14

Query Match 70.7%; Score 29; DB 9; Length 363;  
Best Local Similarity 66.7%; Pred. No. 1.8e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KTVLEITEV 9  
|||: |||  
Db 227 KTKALQTEV 235

RESULT 23  
US-11-055-822-110  
Sequence 110, Application US/11055822  
Publication No. US20050260707A1  
GENERAL INFORMATION:  
APPLICANT: Pompeius, Markus  
APPLICANT: Kroger, Burkhard  
APPLICANT: Schröder, Hartwig  
APPLICANT: Zelder, Oskar  
APPLICANT: Habershauer, Gregor  
TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING  
TITLE OF INVENTION: METABOLIC PATHWAY PROTEINS  
FILE REFERENCE: BGI-121CPCN  
CURRENT APPLICATION NUMBER: US/11/055,822  
CURRENT FILING DATE: 2005-02-11  
PRIOR APPLICATION NUMBER: 09/606,740  
PRIOR FILING DATE: 2000-06-23  
PRIOR APPLICATION NUMBER: 60/141,031  
PRIOR FILING DATE: 1999-06-25  
PRIOR APPLICATION NUMBER: 60/142,101  
PRIOR FILING DATE: 1999-07-02  
PRIOR APPLICATION NUMBER: 60/148,613  
PRIOR FILING DATE: 1999-08-12  
PRIOR APPLICATION NUMBER: 60/187,970  
PRIOR FILING DATE: 2000-03-09  
PRIOR APPLICATION NUMBER: DE 19930476.9  
PRIOR FILING DATE: 1999-07-01  
PRIOR APPLICATION NUMBER: DE 19931415.2  
PRIOR FILING DATE: 1999-07-08  
PRIOR APPLICATION NUMBER: DE 19931418.7  
PRIOR FILING DATE: 1999-07-08  
PRIOR APPLICATION NUMBER: DE 19931419.5  
PRIOR FILING DATE: 1999-07-08  
PRIOR APPLICATION NUMBER: DE 19931420.9  
PRIOR FILING DATE: 1999-07-08  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 1158  
SEQ ID NO 110  
LENGTH: 613  
TYPE: PRT  
ORGANISM: Corynebacterium glutamicum  
US-11-055-822-110

Query Match 70.7%; Score 29; DB 11; Length 613;  
Best Local Similarity 62.5%; Pred. No. 3.3e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KTVLEITE 8  
|||: |||  
Db 140 KTKLEWAB 147

RESULT 24  
US-11-080-991-50

```
; Sequence 50, Application US/11080991
; Publication No. US20050266437A1
; GENERAL INFORMATION:
; APPLICANT: Veldy, Pelter Ole
; TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF BREAST
; FILE REFERENCE: MRI-039
; CURRENT APPLICATION NUMBER: US/11/080,991
; CURRENT FILING DATE: 2005-03-11
; PRIOR APPLICATION NUMBER: US/10/176,847
; PRIOR FILING DATE: 2002-06-21
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 50
; LENGTH: 997
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-080-991-50
```

```
Query Match      70.7%; Score 29; DB 11; Length 997;
Best Local Similarity 85.7%; Pred. No. 5.9e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      2 TVLELITE 8
Db      256 TVLELITE 262
```

```
RESULT 25
US-11-113-424-36
; Sequence 36, Application US/11113424
; Publication No. US20050260713A1
; GENERAL INFORMATION:
; APPLICANT: Ganggoli et al.
; TITLE OF INVENTION: Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-225
; CURRENT APPLICATION NUMBER: US/11/113,424
; CURRENT FILING DATE: 2005-04-21
; PRIOR APPLICATION NUMBER: 60/256,704
; PRIOR FILING DATE: 2000-12-19
; PRIOR APPLICATION NUMBER: 60/311,590
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/257,314
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: 60/311,613
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/315,617
; PRIOR FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: 60/307,506
; PRIOR FILING DATE: 2001-07-24
; PRIOR APPLICATION NUMBER: 60/322,358
; PRIOR FILING DATE: 2001-09-14
; PRIOR APPLICATION NUMBER: 60/294,075
; PRIOR FILING DATE: 2001-05-29
; PRIOR APPLICATION NUMBER: 60/288,153
; PRIOR FILING DATE: 2001-05-02
; NUMBER OF SEQ ID NOS: 190
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 36
; LENGTH: 999
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-113-424-36
```

```
Query Match      70.7%; Score 29; DB 11; Length 999;
Best Local Similarity 85.7%; Pred. No. 5.9e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      2 TVLELITE 8
Db      258 TVLELITE 264
```

```
RESULT 26
US-10-204-252-10
; Sequence 10, Application US/10204252
; Publication No. US2006062803A1
; GENERAL INFORMATION:
; APPLICANT: The Government of the United States of America, as represented by the
; APPLICANT: Secretary, Department of Health and Human Services, Centers for
; APPLICANT: Disease Control and Prevention
; TITLE OF INVENTION: AVIRULENT, IMMUNOGENIC
; TITLE OF INVENTION: FLAVIVIRUS CHIMERAS
; FILE REFERENCE: 14114.033402
; CURRENT APPLICATION NUMBER: US/10/204,252
; CURRENT FILING DATE: 2002-02-16
; PRIOR APPLICATION NUMBER: 60/182,829
; PRIOR FILING DATE: 2000-02-16
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 3389
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:/Note =
US-10-204-252-10
```

```
Query Match      70.7%; Score 29; DB 9; Length 3389;
Best Local Similarity 62.5%; Pred. No. 2.5e+03;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 KTVLELITE 8
Db      1243 KTVLELITE 1250
```

```
RESULT 27
US-10-204-252-6
; Sequence 6, Application US/10204252
; Publication No. US2006062803A1
; GENERAL INFORMATION:
; APPLICANT: The Government of the United States of America, as represented by the
; APPLICANT: Secretary, Department of Health and Human Services, Centers for
; APPLICANT: Disease Control and Prevention
; TITLE OF INVENTION: AVIRULENT, IMMUNOGENIC
; TITLE OF INVENTION: FLAVIVIRUS CHIMERAS
; FILE REFERENCE: 14114.033402
; CURRENT APPLICATION NUMBER: US/10/204,252
; CURRENT FILING DATE: 2002-02-16
; PRIOR APPLICATION NUMBER: 60/182,829
; PRIOR FILING DATE: 2000-02-16
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 3391
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:/Note =
US-10-204-252-6
```

```
Query Match      70.7%; Score 29; DB 9; Length 3391;
Best Local Similarity 62.5%; Pred. No. 2.5e+03;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 KTVLELITE 8
Db      1245 KTVLELITE 1252
```

```
RESULT 28
US-10-204-252-8
```

```
; Sequence 8, Application US/10204252
; Publication No. US20060062803A1
; GENERAL INFORMATION:
; APPLICANT: The Government of the United States of America, as represented by the
; APPLICANT: Secretary, Department of Health and Human Services, Centers for
; APPLICANT: Disease Control and Prevention
; TITLE OF INVENTION: AVIRULENT, IMMUNOGENIC
; FILE REFERENCE: 14114.0334U2
; CURRENT APPLICATION NUMBER: US/10/204,252
; CURRENT FILING DATE: 2002-02-16
; PRIOR APPLICATION NUMBER: 60/182,829
; PRIOR FILING DATE: 2000-02-16
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 3391
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:/Note =
; OTHER INFORMATION: synthetic construct
US-10-204-252-8

Query Match          70.7%; Score 29; DB 9; Length 3391;
Best Local Similarity 62.5%; Pred. No. 2.5e+03;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTD 8
DB 1245 ETLLELTD 1252

RESULT 29
US-10-204-252-12
; Sequence 12, Application US/10204252
; Publication No. US20060062803A1
; GENERAL INFORMATION:
; APPLICANT: The Government of the United States of America, as represented by the
; APPLICANT: Secretary, Department of Health and Human Services, Centers for
; APPLICANT: Disease Control and Prevention
; TITLE OF INVENTION: AVIRULENT, IMMUNOGENIC
; FILE REFERENCE: 14114.0334U2
; CURRENT APPLICATION NUMBER: US/10/204,252
; CURRENT FILING DATE: 2002-02-16
; PRIOR APPLICATION NUMBER: 60/182,829
; PRIOR FILING DATE: 2000-02-16
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 3391
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:/Note =
; OTHER INFORMATION: synthetic construct
US-10-204-252-12

Query Match          70.7%; Score 29; DB 9; Length 3391;
Best Local Similarity 62.5%; Pred. No. 2.5e+03;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTD 8
DB 1245 ETLLELTD 1252

RESULT 30
US-10-204-252-14
; Sequence 14, Application US/10204252
; Publication No. US20060062803A1
; GENERAL INFORMATION:
```

```
; APPLICANT: The Government of the United States of America, as represented by the
; APPLICANT: Secretary, Department of Health and Human Services, Centers for
; APPLICANT: Disease Control and Prevention
; TITLE OF INVENTION: AVIRULENT, IMMUNOGENIC
; FILE REFERENCE: 14114.0334U2
; CURRENT APPLICATION NUMBER: US/10/204,252
; CURRENT FILING DATE: 2002-02-16
; PRIOR APPLICATION NUMBER: 60/182,829
; PRIOR FILING DATE: 2000-02-16
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 3391
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:/Note =
; OTHER INFORMATION: synthetic construct
US-10-204-252-14

Query Match          70.7%; Score 29; DB 9; Length 3391;
Best Local Similarity 62.5%; Pred. No. 2.5e+03;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTD 8
DB 1245 ETLLELTD 1252

RESULT 31
US-10-204-252-16
; Sequence 16, Application US/10204252
; Publication No. US20060062803A1
; GENERAL INFORMATION:
; APPLICANT: The Government of the United States of America, as represented by the
; APPLICANT: Secretary, Department of Health and Human Services, Centers for
; APPLICANT: Disease Control and Prevention
; TITLE OF INVENTION: AVIRULENT, IMMUNOGENIC
; FILE REFERENCE: 14114.0334U2
; CURRENT APPLICATION NUMBER: US/10/204,252
; CURRENT FILING DATE: 2002-02-16
; PRIOR APPLICATION NUMBER: 60/182,829
; PRIOR FILING DATE: 2000-02-16
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 3391
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:/Note =
; OTHER INFORMATION: synthetic construct
US-10-204-252-16

Query Match          70.7%; Score 29; DB 9; Length 3391;
Best Local Similarity 62.5%; Pred. No. 2.5e+03;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTD 8
DB 1245 ETLLELTD 1252

RESULT 32
US-10-204-252-28
; Sequence 28, Application US/10204252
; Publication No. US20060062803A1
; GENERAL INFORMATION:
; APPLICANT: The Government of the United States of America, as represented by the
; APPLICANT: Secretary, Department of Health and Human Services, Centers for
; APPLICANT: Disease Control and Prevention
```

```

; TITLE OF INVENTION: AVIRULENT, IMMUNOGENIC
; FILE REFERENCE: 14114.033402
; CURRENT APPLICATION NUMBER: US/10/204,252
; CURRENT FILING DATE: 2002-02-16
; PRIOR APPLICATION NUMBER: 60/182,829
; PRIOR FILING DATE: 2000-02-16
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: PasteSeq for Windows Version 4.0
; SEQ ID NO 28
; LENGTH: 3391
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:/Note =
; OTHER INFORMATION: synthetic construct
US-10-204-252-28
```

```

Query Match          70.7%; Score 29; DB 9; Length 3391;
Best Local Similarity 62.5%; Pred. No. 2.5e+03;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 KTVLELTE 8
Db      1245 ETLELTD 1252
```

```

RESULT 33
US-10-204-252-18
; Sequence 18, Application US/10204252
; Publication No. US20060062803A1
; GENERAL INFORMATION:
; APPLICANT: The Government of the United States of America, as represented by the
; APPLICANT: Secretary, Department of Health and Human Services, Centers for
; APPLICANT: Disease Control and Prevention
; TITLE OF INVENTION: AVIRULENT, IMMUNOGENIC
; TITLE OF INVENTION: FLAVIVIRUS CHIMERAS
; FILE REFERENCE: 14114.033402
; CURRENT APPLICATION NUMBER: US/10/204,252
; CURRENT FILING DATE: 2002-02-16
; PRIOR APPLICATION NUMBER: 60/182,829
; PRIOR FILING DATE: 2000-02-16
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: PasteSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 3402
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:/Note =
; OTHER INFORMATION: synthetic construct
US-10-204-252-18
```

```

Query Match          70.7%; Score 29; DB 9; Length 3402;
Best Local Similarity 62.5%; Pred. No. 2.5e+03;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 KTVLELTE 8
Db      1256 ETLELTD 1263
```

```

RESULT 34
US-10-467-657-390
; Sequence 390, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
```

```

; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 390
; LENGTH: 118
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-390
```

```

Query Match          68.3%; Score 28; DB 9; Length 118;
Best Local Similarity 62.5%; Pred. No. 75;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 KTVLELTE 8
Db      34 ETVEITE 41
```

```

RESULT 35
US-11-079-463-5429
; Sequence 5429, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRAC
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 5429
; LENGTH: 134
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-5429
```

```

Query Match          68.3%; Score 28; DB 11; Length 134;
Best Local Similarity 75.0%; Pred. No. 88;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 KTVLELTE 8
Db      90 EAVLELTE 97
```

```

RESULT 36
US-11-096-568A-11451
; Sequence 11451, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Therby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 11451
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(151)
; OTHER INFORMATION: Ceres Seq. ID no. 15219662
```

US-11-096-568A-11451

Query Match 68.3%; Score 28; DB 11; Length 151;  
Best Local Similarity 66.7%; Pred. No. 1e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KTVLELTV 9  
Db 3 KTVLELTV 11

RESULT 37

US-11-045-004-523  
; Sequence 523, Application US/11045004  
; Publication No. US20060078901A1  
; GENERAL INFORMATION:  
; APPLICANT: BUCHRISEER, CARMEN  
; APPLICANT: FRANGBUL, LIONEL  
; APPLICANT: COUVE, ELISABETH  
; APPLICANT: RUSNIOK, CHRISTOPHE  
; APPLICANT: ESITH, HAFIDA  
; APPLICANT: DEHOUX, PIERRE  
; APPLICANT: DUSURGET, OLIVIER  
; APPLICANT: CHETOUANI, FARID  
; APPLICANT: NEDJARI, HAFED  
; APPLICANT: GLASER, PHILIPPE  
; APPLICANT: KUNST, FRANCK  
; APPLICANT: COSSART, PASCAL  
; APPLICANT: DANIELS, JUSTIN  
; APPLICANT: GOEBEL, WERNER  
; APPLICANT: KREFT, JURGEN  
; APPLICANT: KUHN, MICHAEL  
; APPLICANT: NG, EVA  
; APPLICANT: VAZQUEZ-BOLAND, ANTONIO  
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO  
; APPLICANT: GARRIDO-GARCIA, PATRICIA  
; APPLICANT: TIERREZ-MARTINEZ, ALBERTO  
; APPLICANT: AMEND, ALEXANDRA  
; APPLICANT: CHAKRABORTY, TRINAD  
; APPLICANT: DOMANN, EUGEN  
; APPLICANT: HAIN, THORSTEN  
; APPLICANT: BERGE, PATRICK  
; APPLICANT: CHARBIT, ALAIN  
; APPLICANT: DURANT, LIONEL  
; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO  
; APPLICANT: BAQUERO, FERNANDO  
; APPLICANT: GARCIA DEL PORTILLO, FRANCISCO  
; APPLICANT: GOMEZ-LOPEZ, NURIA  
; APPLICANT: MADUENIO, ENCANA  
; APPLICANT: PABLOS, BETRIZ DE  
; APPLICANT: WEHLAND, JURGEN  
; APPLICANT: KARST, UWE  
; APPLICANT: ENTIAN, KARL-DIETER  
; APPLICANT: HAUF, JORG  
; APPLICANT: ROSE, MATTHIAS  
; APPLICANT: VOSS, HAMUT  
; TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES  
; FILE REFERENCE: 05394.0018-02  
; CURRENT FILING DATE: 2005-01-28  
; PRIOR FILING DATE: 2003-08-11  
; PRIOR FILING DATE: 2003-08-11  
; PRIOR APPLICATION NUMBER: 10/257,023  
; PRIOR FILING DATE: 2002-10-08  
; PRIOR APPLICATION NUMBER: PCT/FR01/01118  
; PRIOR FILING DATE: 2001-04-11  
; PRIOR APPLICATION NUMBER: FR 00/04,629  
; PRIOR FILING DATE: 2000-04-11  
; NUMBER OF SEQ ID NOS: 2854  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 523  
; LENGTH: 167  
; TYPE: PRT

; ORGANISM: Listeria monocytogenes  
US-11-045-004-523

Query Match 68.3%; Score 28; DB 11; Length 167;  
Best Local Similarity 75.0%; Pred. No. 1.1e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KTVLELTV 8  
Db 95 KEVLELTV 102

RESULT 38

US-10-506-454-263  
; Sequence 263, Application US/10506454  
; Publication No. US20060068386A1  
; GENERAL INFORMATION:  
; APPLICANT: Slesarev, Alexi I  
; APPLICANT: Mezhevaya, Katja V  
; APPLICANT: Polushin, Nikolai N  
; APPLICANT: Shcherbina, Olga V  
; APPLICANT: Shakhova, Vera V  
; APPLICANT: Mal'kh, Andrei G  
; APPLICANT: Kozavkin, Sergei A  
; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile  
; TITLE OF INVENTION: Methanopyrus kandleri AV19 and Monophyly of Archaeal Methanogens  
; FILE REFERENCE: FID001  
; CURRENT APPLICATION NUMBER: US/10/506,454  
; CURRENT FILING DATE: 2004-08-31  
; PRIOR APPLICATION NUMBER: PCT/US03/06664  
; PRIOR FILING DATE: 2003-03-04  
; PRIOR APPLICATION NUMBER: 60/361,742  
; PRIOR FILING DATE: 2002-03-04  
; NUMBER OF SEQ ID NOS: 1722  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 263  
; LENGTH: 192  
; TYPE: PRT  
; ORGANISM: Methanopyrus kandleri  
US-10-506-454-263

Query Match 68.3%; Score 28; DB 9; Length 192;  
Best Local Similarity 75.0%; Pred. No. 1.3e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KTVLELTV 8  
Db 153 KTVLELTV 160

RESULT 39

US-11-096-568A-10973  
; Sequence 10973, Application US/11096568A  
; Publication No. US20060048240A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexandrov, Nikolai et al.  
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
; FILE REFERENCE: 2750-1592US2  
; CURRENT APPLICATION NUMBER: US/11/096,568A  
; CURRENT FILING DATE: 2005-04-01  
; NUMBER OF SEQ ID NOS: 34471  
; SEQ ID NO 10973  
; LENGTH: 226  
; TYPE: PRT  
; ORGANISM: Triticum aestivum  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1)..(226)  
; OTHER INFORMATION: Ceres Seq. ID no. 13597554  
US-11-096-568A-10973

Query Match 68.3%; Score 28; DB 11; Length 226;  
Best Local Similarity 75.0%; Pred. No. 1.6e+02;  
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KTVLELTV 8  
|||  
Db 136 KTALELAE 143

RESULT 40  
US-11-096-568A-31750

; Sequence 31750, Application US/11096568A  
; Publication No. US20060048240A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexandrov, Nikolai et al.  
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
; FILE REFERENCE: 2750-1592PUS2  
; CURRENT APPLICATION NUMBER: US/11/096,568A  
; CURRENT FILING DATE: 2005-04-01  
; NUMBER OF SEQ ID NOS: 34471  
; SEQ ID NO 31750  
; LENGTH: 262  
; TYPE: PRT  
; ORGANISM: Arabidopsis thaliana  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(262)  
; OTHER INFORMATION: Ceres Seq. ID no. 13588638  
US-11-096-568A-31750

Query Match 68.3%; Score 28; DB 11; Length 262;  
Best Local Similarity 55.6%; Pred. No. 2e+02;  
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KTVLELTV 9  
|||  
Db 22 KTISEATEI 30

RESULT 41  
US-11-045-004-549

; Sequence 549, Application US/11045004  
; Publication No. US20060078901A1  
; GENERAL INFORMATION:  
; APPLICANT: BUCHRIESEN, CARMEN  
; APPLICANT: FRANGEUL, LIONEL  
; APPLICANT: COUVE, ELISABETH  
; APPLICANT: RUSNIOK, CHRISTOPHE  
; APPLICANT: ESJHI, HARIDA  
; APPLICANT: DEHOUX, PIERRE  
; APPLICANT: DUSOURGET, OLIVIER  
; APPLICANT: CHETOUANI, FARID  
; APPLICANT: NEDJARI, HAFED  
; APPLICANT: GLASER, PHILIPPE  
; APPLICANT: KUNST, FRANCK  
; APPLICANT: COSSART, PASCALE  
; APPLICANT: DANIELS, JUSTIN  
; APPLICANT: GOEBEL, WERNER  
; APPLICANT: KREFT, JURGEN  
; APPLICANT: KUHN, MICHAEL  
; APPLICANT: NG, EVA  
; APPLICANT: VAZQUEZ-BOLAND, ANTONIO  
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO  
; APPLICANT: GARRIDO-GARCIA, PATRICIA  
; APPLICANT: TIERREZ-MARTINEZ, ALBERTO  
; APPLICANT: AMEND, ALEXANDRA  
; APPLICANT: CHAKRABORTY, TRINAD  
; APPLICANT: DOMANN, EUGEN  
; APPLICANT: HAIN, THORSTEN  
; APPLICANT: BERCHE, PATRICK  
; APPLICANT: CHARBIT, ALAIN  
; APPLICANT: DURANT, LIONEL

; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO

; APPLICANT: BAQUERO, FERRANDO

; APPLICANT: GARCIA DEL PORTILLO, FRANCISCO

; APPLICANT: GOMEZ-LOPEZ, NURIA

; APPLICANT: MADUENIO, ENCARNIA

; APPLICANT: PABLOS, BETRIZ DE

; APPLICANT: WEHLAND, JURGEN

; APPLICANT: KARST, UWE

; APPLICANT: ENTIAN, KARL-DIETER

; APPLICANT: HAUF, JORG

; APPLICANT: ROSE, MATTHIAS

; APPLICANT: VOSS, HANUT

; TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES

; FILE REFERENCE: 05394.0018-02

; CURRENT APPLICATION NUMBER: US/11/045,004

; CURRENT FILING DATE: 2005-01-28

; PRIOR FILING DATE: 2003-08-11

; PRIOR APPLICATION NUMBER: 10/637,657

; PRIOR FILING DATE: 2002-10-08

; PRIOR APPLICATION NUMBER: PCT/FR01/01118

; PRIOR FILING DATE: 2001-04-11

; PRIOR APPLICATION NUMBER: FR 00/04,629

; NUMBER OF SEQ ID NOS: 2854

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 549

; LENGTH: 284

; TYPE: PRT

; ORGANISM: Listeria monocytogenes

US-11-045-004-549

Query Match 68.3%; Score 28; DB 11; Length 284;  
Best Local Similarity 62.5%; Pred. No. 2.1e+02;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KTVLELTV 8  
|||  
Db 61 KTVVKNTE 68

RESULT 42

US-11-096-568A-31749

; Sequence 31749, Application US/11096568A

; Publication No. US20060048240A1

; GENERAL INFORMATION:

; APPLICANT: Alexandrov, Nikolai et al.

; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides

; FILE REFERENCE: 2750-1592PUS2

; CURRENT APPLICATION NUMBER: US/11/096,568A

; CURRENT FILING DATE: 2005-04-01

; NUMBER OF SEQ ID NOS: 34471

; SEQ ID NO 31749

; LENGTH: 285

; TYPE: PRT

; ORGANISM: Arabidopsis thaliana

; FEATURE:

; NAME/KEY: misc\_feature

; LOCATION: (1)..(285)

; OTHER INFORMATION: Ceres Seq. ID no. 13588697

US-11-096-568A-31749

Query Match 68.3%; Score 28; DB 11; Length 285;  
Best Local Similarity 55.6%; Pred. No. 2.2e+02;  
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KTVLELTV 9  
|||  
Db 45 KTISEATEI 53

RESULT 43



US-11-045-004-1210  
; Sequence 1210, Application US/11045004  
; Publication No. US20060078901A1  
; GENERAL INFORMATION:  
; APPLICANT: BUCHRISSER, CARMEN  
; APPLICANT: FRANGEUL, LIONEL  
; APPLICANT: COUVE, ELISABETH  
; APPLICANT: RUSNICK, CHRISTOPHE  
; APPLICANT: FSIHI, HAIDA  
; APPLICANT: DEHOUE, PIERRE  
; APPLICANT: DUSSENET, OLIVIER  
; APPLICANT: CHETOUANI, FARID  
; APPLICANT: NEDJARI, HAFID  
; APPLICANT: GLASER, PHILIPPE  
; APPLICANT: KUNST, FRANCK  
; APPLICANT: COSSART, PASCALE  
; APPLICANT: DANIELS, JUSTIN  
; APPLICANT: GOEBEL, WERNER  
; APPLICANT: KREFT, JURGEN  
; APPLICANT: KUNH, MICHAEL  
; APPLICANT: NG, EVA  
; APPLICANT: VAZQUEZ-BOLAND, ANTONIO  
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO  
; APPLICANT: GARRIDO-GARCIA, PATRICIA  
; APPLICANT: TIERREZ-MARTINEZ, ALBERTO  
; APPLICANT: AMEND, ALEXANDRA  
; APPLICANT: CHAKRABORTY, TRINAD  
; APPLICANT: DOMANN, EUGEN  
; APPLICANT: HAIN, THORSTEN  
; APPLICANT: BERCHE, PATRICK  
; APPLICANT: CHARBIT, ALAIN  
; APPLICANT: DURANT, LIONEL  
; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO  
; APPLICANT: BAQUERO, FERNANDO  
; APPLICANT: GARCIA DEL PORTILLO, FRANCISCO  
; APPLICANT: GOMEZ-LOPEZ, NURIA  
; APPLICANT: MADUENIO, ENCARNACION  
; APPLICANT: PABLOS, BETRIZ DE  
; APPLICANT: MEHLAND, JURGEN  
; APPLICANT: KARST, UWE  
; APPLICANT: ENTIAN, KARL-DIETER  
; APPLICANT: HAUF, JORG  
; APPLICANT: ROSE, MATTHIAS  
; APPLICANT: VOSS, HAMUT  
; TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES  
; FILE REFERENCE: 05394.0018-02  
; CURRENT FILING DATE: 2005-01-28  
; PRIOR APPLICATION NUMBER: 10/637,657  
; PRIOR FILING DATE: 2003-08-11  
; PRIOR APPLICATION NUMBER: 10/257,023  
; PRIOR FILING DATE: 2002-10-08  
; PRIOR APPLICATION NUMBER: PCT/FR01/01118  
; PRIOR FILING DATE: 2001-04-11  
; PRIOR APPLICATION NUMBER: FR 00/04,629  
; PRIOR FILING DATE: 2000-04-11  
; NUMBER OF SEQ ID NOS: 2854  
; SOFTWARE: Patentin version 3.3  
; SEQ ID NO 1210  
; LENGTH: 306  
; TYPE: PRT  
; ORGANISM: Listeria monocytogenes  
US-11-045-004-1210

Query Match 68.3%; Score 28; DB 11; Length 306;  
Best Local Similarity 55.6%; Pred. No. 2.3e+02;  
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 KTVLELTV 9  
DB 287 KTLFNTETI 295

RESULT 44  
US-11-156-084-208  
; Sequence 208, Application US/11156084  
; Publication No. US20060010515A1  
; GENERAL INFORMATION:  
; APPLICANT: Monsanto Technology LLC  
; TITLE OF INVENTION: Controlled expression of cytokinin biosynthetic genes leads to  
; FILE REFERENCE: (38-21)  
; CURRENT APPLICATION NUMBER: US/11/156,084  
; CURRENT FILING DATE: 2005-06-17  
; NUMBER OF SEQ ID NOS: 364  
; SOFTWARE: Patentin version 3.2  
; SEQ ID NO 208  
; LENGTH: 313  
; TYPE: PRT  
; ORGANISM: Yersinia pestis  
US-11-156-084-208

Query Match 68.3%; Score 28; DB 11; Length 313;  
Best Local Similarity 55.6%; Pred. No. 2.4e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 KTVLELTV 9  
DB 180 KTLFNTETI 188

RESULT 45  
US-11-096-568A-10972  
; Sequence 10972, Application US/11096568A  
; Publication No. US20060048240A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexandrov, Nikolai et al.  
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
; FILE REFERENCE: 2750-1592PUS2  
; CURRENT APPLICATION NUMBER: US/11/096,568A  
; CURRENT FILING DATE: 2005-04-01  
; NUMBER OF SEQ ID NOS: 34471  
; SEQ ID NO 10972  
; LENGTH: 315  
; TYPE: PRT  
; ORGANISM: Triticum aestivum  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1)-(315)  
; OTHER INFORMATION: Ceres Seq. ID no. 13597553  
US-11-096-568A-10972

Query Match 68.3%; Score 28; DB 11; Length 315;  
Best Local Similarity 75.0%; Pred. No. 2.4e+02;  
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 KTVLELTV 8  
DB 225 KTVLELTV 232

RESULT 46  
US-11-096-568A-10971  
; Sequence 10971, Application US/11096568A  
; Publication No. US20060048240A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexandrov, Nikolai et al.  
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
; FILE REFERENCE: 2750-1592PUS2  
; CURRENT APPLICATION NUMBER: US/11/096,568A  
; CURRENT FILING DATE: 2005-04-01  
; NUMBER OF SEQ ID NOS: 34471  
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US-11-096-568A-10971
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; Publication No. US20060041961A1
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; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
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; ORGANISM: Pyrococcus abyssi
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; Sequence 6306, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
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; SEQ ID NO 6306
; LENGTH: 341
; TYPE: PRT
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; Sequence 3605, Application US/11087099
; Publication No. US20060041961A1
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; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
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; Sequence 1301, Application US/11045004
; Publication No. US20060078901A1
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; APPLICANT: BUCHRIEGER, CARMEN
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; APPLICANT: COUVE, ELISABETH
; APPLICANT: RUSNIOK, CHRISTOPHE
; APPLICANT: PSIH, HAFIDA
; APPLICANT: DEHOUC, PIERRE
; APPLICANT: DUSURGET, OLIVIER
; APPLICANT: CHERTOUANI, FARID
; APPLICANT: NEDJARI, HAFED
; APPLICANT: GLASER, PHILIPPE
; APPLICANT: KUNST, FRANCK
; APPLICANT: COSSART, PASCAL
; APPLICANT: DANIELS, JUSTIN
; APPLICANT: GOEBEL, WERNER
; APPLICANT: KREFT, JURGEN
; APPLICANT: KUHN, MICHAEL
; APPLICANT: NG, EVA
; APPLICANT: VAZQUEZ-BOLAND, ANTONIO
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
; APPLICANT: GARRIDO-GARCIA, PATRICIA
; APPLICANT: TIERREZ-MARTINEZ, ALBERTO
; APPLICANT: AMEND, ALEXANDRA
; APPLICANT: CHAKRABORTY, TRINAD
; APPLICANT: DOMANN, EUGEN
; APPLICANT: HAIN, THORSTEN
; APPLICANT: BERCHE, PATRICK
; APPLICANT: CHARBIT, ALAIN
; APPLICANT: DURANT, LIONEL
; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
; APPLICANT: BAQUERO, FERNANDO
; APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
; APPLICANT: GOMEZ-LOPEZ, NURIA
; APPLICANT: MADUENIO, ENCARNNA
; APPLICANT: PABLOS, BETRIZ DE
; APPLICANT: WEHLAND, JURGEN
; APPLICANT: KARST, UWE
; APPLICANT: ENTIAN, KARL-DIETER
; APPLICANT: HAUF, JORG
; APPLICANT: ROSE, MATTHIAS
; APPLICANT: VOSS, HAMUT
; TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
; FILE REFERENCE: 05394.0018-02
; CURRENT APPLICATION NUMBER: US/11/045,004
; CURRENT FILING DATE: 2005-01-28
; PRIOR APPLICATION NUMBER: 10/637,657
; PRIOR FILING DATE: 2003-08-11
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; PRIOR APPLICATION NUMBER: 10/257,023  
; PRIOR FILING DATE: 2002-10-08  
; PRIOR APPLICATION NUMBER: PCT/FR01/01118  
; PRIOR FILING DATE: 2001-04-11  
; PRIOR APPLICATION NUMBER: FR 00/04,629  
; PRIOR FILING DATE: 2000-04-11  
; NUMBER OF SEQ ID NOS: 2854  
; SOFTWARE: PatentIn version 3.3  
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US-11-045-004-1301

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## SUMMARIES

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3	44	100.0	158	2 US-08-767-942A-19	Sequence 10, Appl
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5	44	100.0	278	2 US-09-485-885-21	Sequence 21, Appl
6	44	100.0	383	2 US-09-485-885-23	Sequence 23, Appl
7	39	88.6	10	2 US-08-159-339A-87	Sequence 87, Appl
8	33	75.0	536	2 US-09-248-796A-19182	Sequence 19182, A
9	32	72.7	304	2 US-09-107-532A-4117	Sequence 4117, Ap
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11	31	70.5	71	2 US-09-270-767-53382	Sequence 53382, A
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129	28	63.6	191	2	US-09-255-920A-8	Sequence 8, Appl1	202	28	63.6	667	2	US-09-248-796A-23026	Sequence 23026, A
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131	28	63.6	202	2	US-09-255-920A-11	Sequence 11, Appl1	204	28	63.6	727	2	US-09-252-991A-26100	Sequence 26100, A
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142	28	63.6	249	2	US-09-583-110-1182	Sequence 4182, App	215	28	63.6	2375	2	US-09-538-092-1111	Sequence 1131, App
143	28	63.6	269	2	US-09-902-540-16003	Sequence 16003, A	216	28	63.6	2476	2	US-09-824-574-7	Sequence 7, Appl1
144	28	63.6	279	1	US-09-270-767-46255	Sequence 46255, A	217	27	61.4	71	2	US-09-134-001C-4660	Sequence 4660, App
145	28	63.6	292	1	US-08-154-915-2	Sequence 2, Appl1	218	27	61.4	81	2	US-09-270-767-59392	Sequence 59392, App
146	28	63.6	292	1	US-08-464-517-38	Sequence 38, Appl1	219	27	61.4	115	2	US-09-270-767-59849	Sequence 59849, A
147	28	63.6	292	1	US-08-246-361A-38	Sequence 38, Appl1	220	27	61.4	118	2	US-09-540-236-2948	Sequence 2948, App
148	28	63.6	292	2	US-08-463-772-38	Sequence 38, Appl1	221	27	61.4	132	2	US-09-270-767-33195	Sequence 33195, A
149	28	63.6	292	2	US-09-538-092-1238	Sequence 1238, App	222	27	61.4	132	2	US-09-370-767-48412	Sequence 48412, A
150	28	63.6	292	4	PCT-US93-09945-2	Sequence 2, Appl1	223	27	61.4	151	2	US-09-134-000C-3821	Sequence 3821, App
151	28	63.6	295	2	US-09-114-000C-6619	Sequence 6619, App	224	27	61.4	150	2	US-09-540-236-3060	Sequence 3060, App
152	28	63.6	300	2	US-09-949-016-11725	Sequence 11725, A	225	27	61.4	191	2	US-09-902-540-10003	Sequence 10003, A
153	28	63.6	305	2	US-09-538-092-771	Sequence 771, App	226	27	61.4	199	2	US-09-902-540-10589	Sequence 10589, A
154	28	63.6	305	2	US-09-487-558B-262	Sequence 262, App	227	27	61.4	200	2	US-09-107-532A-4446	Sequence 4446, App
155	28	63.6	308	2	US-09-584-568C-8	Sequence 8, Appl1	228	27	61.4	200	2	US-09-902-540-13107	Sequence 13107, A
156	28	63.6	340	2	US-09-583-681A-7989	Sequence 7989, App	229	27	61.4	225	2	US-10-104-047-2924	Sequence 2924, App
157	28	63.6	342	2	US-09-949-016-10797	Sequence 10797, A	230	27	61.4	225	2	US-09-252-991A-27421	Sequence 27421, App
158	28	63.6	344	2	US-09-134-001C-5343	Sequence 5343, App	231	27	61.4	228	2	US-09-489-039A-7761	Sequence 7761, App
159	28	63.6	373	2	US-08-685-466C-2	Sequence 2, Appl1	232	27	61.4	228	2	US-10-200-012-44	Sequence 44, Appl1
160	28	63.6	373	2	US-09-489-039A-11612	Sequence 11612, A	233	27	61.4	234	2	US-09-252-991A-21668	Sequence 21668, A
161	28	63.6	377	1	US-08-839-581A-31	Sequence 31, Appl1	234	27	61.4	239	2	US-09-489-039A-11136	Sequence 11136, A
162	28	63.6	377	2	US-09-023-591A-31	Sequence 31, Appl1	235	27	61.4	266	2	US-09-248-796A-19900	Sequence 19900, A
163	28	63.6	408	2	US-09-252-991A-30278	Sequence 30278, A	236	27	61.4	273	2	US-09-107-433-2992	Sequence 2992, App
164	28	63.6	408	2	US-09-107-532A-6253	Sequence 6253, App	237	27	61.4	275	2	US-09-248-796A-18125	Sequence 18125, A
165	28	63.6	436	2	US-09-489-039A-11612	Sequence 11612, A	238	27	61.4	280	2	US-09-489-039A-11623	Sequence 11623, App
166	28	63.6	436	2	US-09-543-681A-4395	Sequence 4395, App	239	27	61.4	288	2	US-09-583-110-3904	Sequence 3904, App
167	28	63.6	444	2	US-10-363-937-14	Sequence 14, Appl1	240	27	61.4	291	2	US-09-107-532A-5063	Sequence 5063, App
168	28	63.6	448	2	US-09-518-657-2	Sequence 2, Appl1	241	27	61.4	300	2	US-09-107-433-3361	Sequence 3361, App
169	28	63.6	450	2	US-09-518-657-4	Sequence 4, Appl1	242	27	61.4	302	2	US-09-248-796A-18125	Sequence 18125, A
170	28	63.6	450	2	US-09-107-532A-6534	Sequence 6534, App	243	27	61.4	303	2	US-09-248-796A-18125	Sequence 18125, A
171	28	63.6	472	2	US-09-605-703B-1400	Sequence 1400, App	244	27	61.4	307	2	US-09-583-110-5224	Sequence 5224, App
172	28	63.6	472	2	US-09-605-703B-1426	Sequence 1426, App	245	27	61.4	309	2	US-09-270-767-43985	Sequence 43985, A
173	28	63.6	472	2	US-09-605-703B-1428	Sequence 1428, App	246	27	61.4	310	2	US-09-543-681A-6311	Sequence 6311, App

247	27	61.4	310	2	US-09-602-777A-328	Sequence 328, App	320	27	61.4	719	2	US-08-851-843A-7	Sequence 7, Appl
248	27	61.4	311	2	US-09-828-523A-86	Sequence 86, Appl	321	27	61.4	719	2	US-08-974-549A-219	Sequence 219, App
249	27	61.4	323	2	US-09-134-000C-5528	Sequence 5528, Ap	322	27	61.4	719	2	US-08-854-050-7	Sequence 7, Appl
250	27	61.4	329	2	US-10-159-901-33	Sequence 33, Appl	323	27	61.4	719	2	US-09-430-323-7	Sequence 7, Appl
251	27	61.4	329	2	US-10-159-901-34	Sequence 34, Appl	324	27	61.4	719	2	US-09-402-181B-219	Sequence 219, App
252	27	61.4	329	2	US-10-159-901-55	Sequence 55, Appl	325	27	61.4	719	2	US-09-721-456-219	Sequence 7, Appl
253	27	61.4	333	2	US-09-107-532A-041	Sequence 4041, Ap	326	27	61.4	719	2	US-10-054-295-7	Sequence 7, Appl
254	27	61.4	341	2	US-09-543-681A-5975	Sequence 5975, Ap	327	27	61.4	719	2	US-09-438-486A-7	Sequence 7, Appl
255	27	61.4	347	2	US-09-583-110-4767	Sequence 4767, Ap	328	27	61.4	725	2	US-09-252-991A-17874	Sequence 17874, A
256	27	61.4	368	2	US-09-489-039A-9556	Sequence 9556, Ap	329	27	61.4	754	2	US-09-392-714-20	Sequence 20, Appl
257	27	61.4	368	2	US-09-134-000C-5837	Sequence 5837, Ap	330	27	61.4	759	2	US-09-002-285-86	Sequence 86, Appl
258	27	61.4	369	2	US-09-107-433-3979	Sequence 3979, Ap	331	27	61.4	759	2	US-09-589-477-86	Sequence 86, Appl
259	27	61.4	369	2	US-09-902-540-1050	Sequence 12050, A	332	27	61.4	759	2	US-10-099-285A-86	Sequence 2, Appl
260	27	61.4	375	2	US-09-949-016-10691	Sequence 10691, A	333	27	61.4	773	2	US-09-889-914B-2	Sequence 54, Appl
261	27	61.4	379	2	US-09-634-238-244	Sequence 244, App	334	27	61.4	787	2	US-09-307-106-54	Sequence 29, Appl
262	27	61.4	386	2	US-09-820-005-2	Sequence 2, Appl	335	27	61.4	789	1	US-08-471-033-39	Sequence 32, Appl
263	27	61.4	386	2	US-10-109-856-2	Sequence 2, Appl	336	27	61.4	789	1	US-08-471-033-32	Sequence 29, Appl
264	27	61.4	386	2	US-09-248-796A-15067	Sequence 15067, A	337	27	61.4	789	1	US-08-471-044-32	Sequence 32, Appl
265	27	61.4	386	2	US-10-767-341-2	Sequence 2, Appl	338	27	61.4	789	1	US-08-471-044-32	Sequence 29, Appl
266	27	61.4	390	2	US-09-820-005-4	Sequence 4, Appl	339	27	61.4	789	1	US-08-463-483A-29	Sequence 32, Appl
267	27	61.4	390	2	US-10-109-856-4	Sequence 4, Appl	340	27	61.4	789	1	US-08-463-483A-32	Sequence 29, Appl
268	27	61.4	390	2	US-10-418-036-18	Sequence 18, Appl	341	27	61.4	789	1	US-08-471-046A-29	Sequence 32, Appl
269	27	61.4	390	2	US-10-767-341-4	Sequence 4, Appl	342	27	61.4	789	1	US-08-470-566B-32	Sequence 32, Appl
270	27	61.4	391	4	PCT-US91-08177-3	Sequence 3, Appl	343	27	61.4	789	1	US-08-470-566B-29	Sequence 2, Appl
271	27	61.4	392	2	US-09-328-352-6498	Sequence 6498, Ap	344	27	61.4	789	1	US-08-838-219B-2	Sequence 4, Appl
272	27	61.4	392	2	US-09-248-796A-26630	Sequence 26630, A	345	27	61.4	789	1	US-08-838-219B-4	Sequence 29, Appl
273	27	61.4	396	2	US-09-567-458A-5	Sequence 5, Appl	346	27	61.4	789	1	US-08-469-334-29	Sequence 32, Appl
274	27	61.4	405	2	US-09-252-991A-26705	Sequence 26705, A	347	27	61.4	789	1	US-08-469-334-32	Sequence 29, Appl
275	27	61.4	413	2	US-09-270-767-44418	Sequence 44418, A	348	27	61.4	789	1	US-08-469-334-32	Sequence 32, Appl
276	27	61.4	421	2	US-09-489-039A-7983	Sequence 7983, Ap	349	27	61.4	789	2	US-09-300-529-29	Sequence 29, Appl
277	27	61.4	432	2	US-10-360-101-204	Sequence 204, App	350	27	61.4	789	2	US-09-300-529-32	Sequence 32, Appl
278	27	61.4	434	2	US-09-594-193-7	Sequence 7, Appl	351	27	61.4	789	2	US-09-233-336A-2	Sequence 2, Appl
279	27	61.4	438	2	US-09-543-681A-8327	Sequence 8327, Ap	352	27	61.4	789	2	US-09-233-336A-2	Sequence 2, Appl
280	27	61.4	447	2	US-09-134-001C-4523	Sequence 4523, Ap	353	27	61.4	789	2	US-09-233-336A-2	Sequence 4, Appl
281	27	61.4	449	2	US-09-134-001C-3590	Sequence 3590, Ap	354	27	61.4	789	2	US-09-233-752A-2	Sequence 2, Appl
282	27	61.4	454	2	US-09-543-681A-4265	Sequence 4265, Ap	355	27	61.4	789	2	US-09-233-752A-4	Sequence 4, Appl
283	27	61.4	455	2	US-09-248-796A-23277	Sequence 5179, Ap	356	27	61.4	789	2	US-08-960-780-6	Sequence 6, Appl
284	27	61.4	464	1	US-08-046-431A-2	Sequence 2, Appl	357	27	61.4	789	2	US-09-073-898-6	Sequence 2, Appl
285	27	61.4	464	2	US-09-414-834-1	Sequence 1, Appl	358	27	61.4	789	2	US-09-402-036-2	Sequence 4, Appl
286	27	61.4	465	2	US-08-948-997-6	Sequence 6, Appl	359	27	61.4	789	2	US-09-002-285-80	Sequence 80, Appl
287	27	61.4	465	2	US-09-348-817A-6	Sequence 6, Appl	360	27	61.4	789	2	US-09-002-285-82	Sequence 82, Appl
288	27	61.4	465	2	US-09-122-292-6	Sequence 22984, A	361	27	61.4	789	2	US-09-002-285-84	Sequence 84, Appl
289	27	61.4	465	2	US-09-054-272-4	Sequence 4, Appl	362	27	61.4	789	2	US-09-002-285-90	Sequence 90, Appl
290	27	61.4	465	2	US-09-252-991A-22984	Sequence 22984, A	363	27	61.4	789	2	US-09-002-285-96	Sequence 96, Appl
291	27	61.4	465	2	US-09-054-272-4	Sequence 4, Appl	364	27	61.4	789	2	US-09-002-285-96	Sequence 96, Appl
292	27	61.4	474	2	US-09-252-991A-29082	Sequence 29082, A	365	27	61.4	789	2	US-09-002-285-96	Sequence 96, Appl
293	27	61.4	490	2	US-09-056-285A-10	Sequence 10, Appl	366	27	61.4	789	2	US-09-002-285-98	Sequence 98, Appl
294	27	61.4	490	2	US-09-952-464A-10	Sequence 88, Appl	367	27	61.4	789	2	US-09-002-285-98	Sequence 88, Appl
295	27	61.4	511	2	US-09-002-285-88	Sequence 88, Appl	368	27	61.4	789	2	US-09-002-285-98	Sequence 88, Appl
296	27	61.4	511	2	US-09-589-477-88	Sequence 88, Appl	369	27	61.4	789	2	US-09-904-226-2	Sequence 2, Appl
297	27	61.4	511	2	US-09-589-477-88	Sequence 88, Appl	370	27	61.4	789	2	US-09-904-226-4	Sequence 4, Appl
298	27	61.4	511	2	US-10-099-285A-88	Sequence 25, Appl	371	27	61.4	789	2	US-09-589-477-78	Sequence 78, Appl
299	27	61.4	514	2	US-10-029-347-25	Sequence 14, Appl	372	27	61.4	789	2	US-09-589-477-80	Sequence 80, Appl
300	27	61.4	514	2	US-10-183-770A-14	Sequence 9435, Ap	373	27	61.4	789	2	US-09-589-477-82	Sequence 82, Appl
301	27	61.4	529	2	US-09-489-039A-9435	Sequence 9435, Ap	374	27	61.4	789	2	US-09-589-477-84	Sequence 84, Appl
302	27	61.4	551	2	US-09-538-092-738	Sequence 738, App	375	27	61.4	789	2	US-09-589-477-90	Sequence 90, Appl
303	27	61.4	584	2	US-09-448-796A-16044	Sequence 16044, A	376	27	61.4	789	2	US-09-589-477-92	Sequence 92, Appl
304	27	61.4	599	1	US-08-910-551B-2	Sequence 2, Appl	377	27	61.4	789	2	US-09-589-477-96	Sequence 96, Appl
305	27	61.4	626	2	US-09-252-991A-30863	Sequence 30863, A	378	27	61.4	789	2	US-09-589-477-98	Sequence 98, Appl
306	27	61.4	666	2	US-09-198-452A-409	Sequence 409, App	379	27	61.4	789	2	US-09-589-477-98	Sequence 98, Appl
307	27	61.4	666	2	US-09-438-185A-390	Sequence 3847, Ap	380	27	61.4	789	2	US-10-099-285A-80	Sequence 80, Appl
308	27	61.4	676	2	US-09-107-532A-3847	Sequence 2, Appl	381	27	61.4	789	2	US-10-099-285A-84	Sequence 84, Appl
309	27	61.4	683	2	US-09-816-093-2	Sequence 52, Appl	382	27	61.4	789	2	US-10-099-285A-90	Sequence 90, Appl
310	27	61.4	689	2	US-08-851-843A-52	Sequence 52, Appl	383	27	61.4	789	2	US-10-099-285A-92	Sequence 92, Appl
311	27	61.4	689	2	US-08-974-549A-188	Sequence 188, App	384	27	61.4	789	2	US-10-099-285A-96	Sequence 96, Appl
312	27	61.4	689	2	US-08-854-050-52	Sequence 52, Appl	385	27	61.4	789	2	US-10-099-285A-98	Sequence 98, Appl
313	27	61.4	699	2	US-09-430-323-52	Sequence 188, App	386	27	61.4	789	2	US-10-099-285A-98	Sequence 98, Appl
314	27	61.4	699	2	US-09-402-181B-188	Sequence 188, App	387	27	61.4	789	2	US-10-099-285A-98	Sequence 98, Appl
315	27	61.4	699	2	US-09-721-456-188	Sequence 188, App	388	27	61.4	789	2	US-10-099-285A-100	Sequence 100, App
316	27	61.4	699	2	US-09-766-293-52	Sequence 52, Appl	389	27	61.4	790	2	US-08-960-780-4	Sequence 4, Appl
317	27	61.4	699	2	US-10-054-295-52	Sequence 52, Appl	390	27	61.4	790	2	US-08-960-780-8	Sequence 8, Appl
318	27	61.4	699	2	US-09-438-486A-52	Sequence 52, Appl	391	27	61.4	790	2	US-09-073-898-4	Sequence 4, Appl
319	27	61.4	716	2	US-09-816-093-4	Sequence 4, Appl	392	27	61.4	790	2	US-09-073-898-4	Sequence 4, Appl

393	27	61.4	790	2	US-09-073-898-8	Sequence 8, Appli	466	26	59.1	149	2	US-09-270-767-47650	Sequence 47650, A
394	27	61.4	790	2	US-09-002-285-102	Sequence 102, App	467	26	59.1	150	2	US-09-107-532A-55619	Sequence 55619, Ap
395	27	61.4	790	2	US-09-588-477-102	Sequence 102, App	468	26	59.1	151	2	US-09-270-767-37857	Sequence 37857, A
396	27	61.4	790	2	US-09-307-106-2	Sequence 2, Appli	469	26	59.1	151	2	US-09-270-767-53074	Sequence 53074, A
397	27	61.4	790	2	US-09-850-351A-4	Sequence 8, Appli	470	26	59.1	154	2	US-09-955-732A-8	Sequence 8, Appli
398	27	61.4	790	2	US-09-850-351A-8	Sequence 8, Appli	471	26	59.1	157	2	US-09-267-177-19	Sequence 19, Appli
399	27	61.4	790	2	US-10-099-285A-102	Sequence 102, App	472	26	59.1	157	2	US-09-763-620-19	Sequence 19, Appli
400	27	61.4	801	2	US-09-948-016-6588	Sequence 6588, Ap	473	26	59.1	159	2	US-09-508-691-5	Sequence 5, Appli
401	27	61.4	806	2	US-09-270-767-34213	Sequence 34213, A	474	26	59.1	159	2	US-10-360-101-208	Sequence 208, App
402	27	61.4	806	2	US-09-270-767-49430	Sequence 49430, A	475	26	59.1	160	1	US-08-094-079-1	Sequence 1, Appli
403	27	61.4	810	2	US-09-949-016-11152	Sequence 11152, A	476	26	59.1	163	2	US-09-248-796A-15603	Sequence 15603, A
404	27	61.4	834	2	US-10-104-047-2323	Sequence 2323, Ap	477	26	59.1	167	2	US-09-248-796A-19699	Sequence 19699, A
405	27	61.4	899	2	US-09-107-532A-4503	Sequence 4503, Ap	478	26	59.1	169	2	US-09-544-716-16	Sequence 16, Appli
406	27	61.4	904	2	US-09-543-681A-6943	Sequence 6943, Ap	479	26	59.1	169	2	US-09-557-925-28	Sequence 17, Appli
407	27	61.4	919	2	US-08-985-916-16	Sequence 16, Appli	480	26	59.1	169	2	US-09-564-357-19	Sequence 19, Appli
408	27	61.4	928	2	US-09-252-991A-24200	Sequence 24200, A	481	26	59.1	169	2	US-09-619-80-18	Sequence 18, Appli
409	27	61.4	1034	2	US-10-183-770A-18	Sequence 18, Appli	482	26	59.1	169	2	US-09-544-517-18	Sequence 18, Appli
410	27	61.4	1046	2	US-09-252-991A-30284	Sequence 30284, A	483	26	59.1	169	2	US-09-527-176-13	Sequence 13, Appli
411	27	61.4	1909	2	US-09-590-968B-2	Sequence 2, Appli	484	26	59.1	169	2	US-09-775-925-28	Sequence 28, Appli
412	27	61.4	2233	1	US-08-569-853-1	Sequence 2, Appli	485	26	59.1	173	2	US-09-270-767-57703	Sequence 57703, A
413	27	61.4	2233	1	US-08-569-853-2	Sequence 2, Appli	486	26	59.1	178	2	US-09-540-236-2174	Sequence 2174, Ap
414	27	61.4	2233	1	US-08-987-439-1	Sequence 1, Appli	487	26	59.1	181	2	US-09-134-000C-3561	Sequence 3561, Ap
415	27	61.4	2496	2	US-09-125-028-2	Sequence 2, Appli	488	26	59.1	187	2	US-09-270-767-61085	Sequence 61085, A
416	27	61.4	2958	2	US-08-894-344C-2	Sequence 2, Appli	489	26	59.1	190	2	US-08-824-873-3	Sequence 3, Appli
417	27	61.4	2958	2	US-09-678-023A-2	Sequence 2, Appli	490	26	59.1	190	2	US-09-198-184-3	Sequence 3, Appli
418	26	59.1	19	1	US-08-793-480-5	Sequence 5, Appli	491	26	59.1	190	2	US-08-667-352-25	Sequence 25, Appli
419	26	59.1	60	1	US-08-210-266A-10	Sequence 10, Appli	492	26	59.1	190	2	US-09-255-920A-7	Sequence 7, Appli
420	26	59.1	60	1	US-08-688-675-10	Sequence 10, Appli	493	26	59.1	191	2	US-09-232-191-15	Sequence 15, Appli
421	26	59.1	60	2	US-08-477-860C-10	Sequence 10, Appli	494	26	59.1	191	2	US-09-232-197-15	Sequence 15, Appli
422	26	59.1	60	2	US-08-126-505A-1	Sequence 1, Appli	495	26	59.1	191	2	US-09-232-190-15	Sequence 15, Appli
423	26	59.1	61	2	US-09-640-211A-1015	Sequence 1015, Ap	496	26	59.1	191	2	US-09-232-195-15	Sequence 15, Appli
424	26	59.1	64	2	US-09-690-454-151	Sequence 151, App	497	26	59.1	191	2	US-09-232-195-15	Sequence 15, Appli
425	26	59.1	66	2	US-09-370-473-8	Sequence 8, Appli	498	26	59.1	197	1	US-08-356-361-27	Sequence 27, Appli
426	26	59.1	72	2	US-09-513-999C-4367	Sequence 4367, Ap	499	26	59.1	197	1	US-08-769-967A-27	Sequence 27, Appli
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708	26	59.1	407	2	US-09-950-739-2	Sequence 2, Appl1	781	26	59.1	730	2	US-10-020-445A-102	Sequence 102, App
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## ALIGNMENTS

RESULT 1  
US-08-159-339A-1174  
; Sequence 1174, Application US/08159339A  
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; GENERAL INFORMATION:  
; APPLICANT: Kubo, Ralph T.  
; APPLICANT: Grey, Howard M.  
; APPLICANT: Sette, Alessandro  
; APPLICANT: Celis, Esben  
; TITLE OF INVENTION: HLA Binding peptides and Their  
; TITLE OF INVENTION: Uses  
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; CORRESPONDENCE ADDRESSES:  
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; ZIP: 94111-3834  
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; REGISTRATION NUMBER: 32,762  
; REFERENCE/DOCKET NUMBER: 018623-005030US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415) 576-0200  
; TELEFAX: (415) 576-0300  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 1174:

SEQUENCE CHARACTERISTICS:  
; LENGTH: 15 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-159-339A-1174

Query Match 100.0%; Score 44; DB 2; Length 15;  
Best Local Similarity 100.0%; Pred. No. 0.0092;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFEFA 9  
Db 5 ELTEVEFEFA 13

RESULT 2  
US-08-247-904B-10  
; Sequence 10, Application US/08247904B  
; Patent No. 5981699  
; GENERAL INFORMATION:  
; APPLICANT: Rolfe, Mark  
; APPLICANT: Eckstein, Jens W.  
; APPLICANT: Draetta, Giulio  
; TITLE OF INVENTION: Human Ubiquitin Conjugating Enzyme  
; NUMBER OF SEQUENCES: 17  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSEE: Foley, Hoag & Eliot  
; STREET: One Post Office Square  
; CITY: Boston  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: ASCII(text)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/247,904B  
; FILING DATE: 23-MAY-1994  
; CLASSIFICATION: 530  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Vincent, Matthew P.  
; REGISTRATION NUMBER: 36,709  
; REFERENCE/DOCKET NUMBER: MIV-029.01  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 832-1000  
; TELEFAX: (617) 832-7000  
; INFORMATION FOR SEQ ID NO: 10:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 158 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-247-904B-10

Query Match 100.0%; Score 44; DB 1; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.12;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFEFA 9  
Db 40 ELTEVEFEFA 48

RESULT 3  
US-08-767-942A-19  
; Sequence 19, Application US/08767942A  
; Patent No. 6068982  
; GENERAL INFORMATION:  
; APPLICANT: Rolfe, Mark

APPLICANT: Chiu, M. Isabel  
APPLICANT: Berlin, Vivian  
APPLICANT: Damagnez, Veronique  
APPLICANT: Draetta, Giulio  
APPLICANT: Guillaume, Cottarel  
TITLE OF INVENTION: UBIQUITIN CONJUGATING ENZYMES  
NUMBER OF SEQUENCES: 45  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FOLEY, HONG & ELIOT LLP  
STREET: One Post Office Square  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02109-2170  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/767,942A  
FILING DATE: 17-DEC-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Vincent, Matthew P.  
REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: MIV-029,04  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-832-1000  
TELEFAX: 617-832-7000  
INFORMATION FOR SEQ ID NO: 19:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 158 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-767-942A-19

Query Match 100.0%; Score 44; DB 2; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.12;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVFEEFA 9  
|||||  
DB 40 ELTEVFEEFA 48

RESULT 4  
US-08-117-083-14  
Sequence 14, Application US/08117083  
Patent No. 5719054  
GENERAL INFORMATION:  
APPLICANT: Bourrenell, Michael E.  
APPLICANT: Ingils, Stephen C.  
APPLICANT: Munro, Alan J.  
TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human  
TITLE OF INVENTION: Papilloma Virus Proteins  
NUMBER OF SEQUENCES: 70  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Walter H. Dreger  
STREET: 4 Embarcadero Center, Suite 3400  
CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94111  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/117,083  
FILING DATE: 10-SEP-1993  
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:  
NAME: Dreger, Walter H.  
REGISTRATION NUMBER: 24,190  
REFERENCE/DOCKET NUMBER: A-58783  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-781-1989  
TELEFAX: 415-398-3249  
TELEX: 910 277299  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 271 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
NAME/KEY: Protein  
LOCATION: 1..271  
OTHER INFORMATION: /note="Xaa refers to stop codon in  
OTHER INFORMATION: the open reading frame."  
US-08-117-083-14

Query Match 100.0%; Score 44; DB 1; Length 271;  
Best Local Similarity 100.0%; Pred. No. 0.21;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVFEEFA 9  
|||||  
DB 41 ELTEVFEEFA 49

RESULT 5  
US-09-485-885-21  
Sequence 21, Application US/09485885  
Patent No. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabezon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Fernande  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 21  
LENGTH: 278  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-485-885-21

Query Match 100.0%; Score 44; DB 2; Length 278;  
Best Local Similarity 100.0%; Pred. No. 0.22;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVFEEFA 9  
|||||  
DB 151 ELTEVFEEFA 159

RESULT 6  
US-09-485-885-23  
Sequence 23, Application US/09485885  
Patent No. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabezon Silva, Teresa

APPLICANT: Delisee, Anne-Marie Eva Fernande  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 23  
LENGTH: 383  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-485-885-23

Query Match 100.0%; Score 44; DB 2; Length 383;  
Best Local Similarity 100.0%; Pred. No. 0.31;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ELTEVFEPFA 9  
Db 151 ELTEVFEPFA 159

RESULT 7  
US-08-159-339A-87  
Sequence 87, Application US/08159339A  
Patent No. 6037735  
GENERAL INFORMATION:  
APPLICANT: Kubo, Ralph T.  
APPLICANT: Grey, Howard M.  
APPLICANT: Sette, Alessandro  
APPLICANT: Celis, Esben  
TITLE OF INVENTION: HLA Binding peptides and Their  
NUMBER OF SEQUENCES: 1254  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/159,339A  
FILING DATE: 29-NOV-1993  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/926,666  
FILING DATE: 07-AUG-1992  
APPLICATION NUMBER: US 08/027,746  
FILING DATE: 05-MAR-1993  
APPLICATION NUMBER: US 08/103,396  
FILING DATE: 06-AUG-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Weber, Ellen Lauver  
REGISTRATION NUMBER: 32,762  
REFERENCE/DOCKET NUMBER: 018623-005030US  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
TELEX:  
INFORMATION FOR SEQ ID NO: 87:  
SEQUENCE CHARACTERISTICS:

LENGTH: 10 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-159-339A-87

Query Match 88.6%; Score 39; DB 2; Length 10;  
Best Local Similarity 100.0%; Pred. No. 0.064;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 LTEVFEPFA 9  
Db 1 LTEVFEPFA 8

RESULT 8  
US-09-248-796A-19182  
Sequence 19182, Application US/09248796A  
Patent No. 6747137  
GENERAL INFORMATION:  
APPLICANT: Keith Weinstock et al  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS  
FILE REFERENCE: 107196.132  
CURRENT APPLICATION NUMBER: US/09/248,796A  
CURRENT FILING DATE: 1999-02-12  
PRIOR APPLICATION NUMBER: US 60/074,725  
PRIOR FILING DATE: 1998-02-13  
PRIOR APPLICATION NUMBER: US 60/096,409  
PRIOR FILING DATE: 1998-08-13  
NUMBER OF SEQ ID NOS: 28208  
SEQ ID NO 19182  
LENGTH: 536  
TYPE: PRT  
ORGANISM: Candida albicans  
US-09-248-796A-19182

Query Match 75.0%; Score 33; DB 2; Length 536;  
Best Local Similarity 87.5%; Pred. No. 84;  
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LTEVFEPFA 9  
Db 126 LREVFEPFA 133

RESULT 9  
US-09-107-532A-4117  
Sequence 4117, Application US/09107532A  
Patent No. 6583275  
GENERAL INFORMATION:  
APPLICANT: Lynn A Doucette-Stamm and David Bush  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO  
ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS  
NUMBER OF SEQUENCES: 7310  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: GENOME THERAPEUTICS CORPORATION  
STREET: 100 Beaver Street  
CITY: Waltham  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02354  
COMPUTER READABLE FORM:  
MEDIUM TYPE: CD-ROM ISO9660  
COMPUTER: PC  
OPERATING SYSTEM: <Unknown>  
SOFTWARE: ASCII  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/107,532A  
FILING DATE: 30-Jun-1998  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/085,598

```

; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Atinello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 4117:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 304 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHEICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (8) LOCATION 1..304
; SEQUENCE DESCRIPTION: SEQ ID NO: 4117:
US-09-107-532A-4117

Query Match          72.7% Score 32; DB 2; Length 304;
Best Local Similarity 66.7%; Pred. No. 73;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELTEVEFEFA 9
   |||:||||
DB 282 ELTEIFEFA 290

RESULT 10
US-09-270-767-38165
; Sequence 38165, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 38165
; LENGTH: 71
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-38165

Query Match          70.5% Score 31; DB 2; Length 71;
Best Local Similarity 66.7%; Pred. No. 24;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 ELTEVEFEFA 9
   |||:||||
DB 50 QLSNVFEFA 58

RESULT 11
US-09-270-767-53382
; Sequence 53382, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
```

```

; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 53382
; LENGTH: 71
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-53382

Query Match          70.5% Score 31; DB 2; Length 71;
Best Local Similarity 66.7%; Pred. No. 24;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 ELTEVEFEFA 9
   |||:||||
DB 50 QLSNVFEFA 58

RESULT 12
US-09-286-959B-16
; Sequence 16, Application US/09286959B
; Patent No. 6300131
; GENERAL INFORMATION:
; APPLICANT: Johns Hopkins University
; APPLICANT: Greider, Carol W.
; APPLICANT: Le, Siyuan
; TITLE OF INVENTION: TELOMERASE-ASSOCIATED PROTEINS
; FILE REFERENCE: 07265/157001
; CURRENT APPLICATION NUMBER: US/09/286,959B
; CURRENT FILING DATE: 1999-04-06
; PRIOR APPLICATION NUMBER: 60/080,783
; PRIOR FILING DATE: 1998-04-06
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 73
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: BINDING
; LOCATION: (0)....(0)
US-09-286-959B-16

Query Match          70.5% Score 31; DB 2; Length 73;
Best Local Similarity 66.7%; Pred. No. 25;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELTEVEFEFA 9
   |||:||||
DB 5 ELQVFEFA 13

RESULT 13
US-09-107-532A-6259
; Sequence 6259, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
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SOFTWARE: ASCII  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/107,532A  
FILING DATE: 30-Jun-1998  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/085,598  
FILING DATE: 14 May 1998  
APPLICATION NUMBER: 60/051571  
FILING DATE: July 2, 1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Ariniello, Pamela Deneke  
REGISTRATION NUMBER: 40,489  
REFERENCE/DOCKET NUMBER: GTC-012  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (781)893-5007  
TELEFAX: (781)893-8277  
INFORMATION FOR SEQ ID NO: 6259:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 117 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: YES  
ORIGINAL SOURCE:  
ORGANISM: Enterococcus faecium  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (B) LOCATION 1..117  
SEQUENCE DESCRIPTION: SEQ ID NO: 6259:  
US-09-107-532A-6259

Query Match 70.5%; Score 31; DB 2; Length 117;  
Best Local Similarity 85.7%; Pred. No. 42;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
QY 1 ELTEVFPE 7  
Db 92 DLTEVFPE 98

RESULT 14  
US-09-134-000C-4494  
Sequence 4494, Application US/09134000C  
Patent No. 6617156  
GENERAL INFORMATION:  
APPLICANT: Lynn Doucette-Stamm et al  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO  
FILE REFERENCE: 032796-032  
CURRENT APPLICATION NUMBER: US/09/134,000C  
CURRENT FILING DATE: 1998-08-13  
PRIOR APPLICATION NUMBER: US 60/055,778  
PRIOR FILING DATE: 1997-08-15  
NUMBER OF SEQ ID NOS: 6812  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 4494  
LENGTH: 123  
TYPE: PRT  
ORGANISM: Enterococcus faecalis  
US-09-134-000C-4494

Query Match 70.5%; Score 31; DB 2; Length 123;  
Best Local Similarity 85.7%; Pred. No. 44;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVFPE 7  
Db 94 DLTEVFPE 100

RESULT 15  
US-09-134-000C-5796  
Sequence 5796, Application US/09134000C

Patent No. 6617156  
GENERAL INFORMATION:  
APPLICANT: Lynn Doucette-Stamm et al  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO  
FILE REFERENCE: 032796-032  
CURRENT APPLICATION NUMBER: US/09/134,000C  
CURRENT FILING DATE: 1998-08-13  
PRIOR APPLICATION NUMBER: US 60/055,778  
PRIOR FILING DATE: 1997-08-15  
NUMBER OF SEQ ID NOS: 6812  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 5796  
LENGTH: 216  
TYPE: PRT  
ORGANISM: Enterococcus faecalis  
US-09-134-000C-5796

Query Match 70.5%; Score 31; DB 2; Length 216;  
Best Local Similarity 75.0%; Pred. No. 81;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELTEVFPE 8  
Db 13 QLKEVFPE 20

RESULT 16  
US-08-246-403A-3  
Sequence 3, Application US/08246403A  
Patent No. 5583040  
GENERAL INFORMATION:  
APPLICANT: Kaji, Akira  
TITLE OF INVENTION: Mutation of RepA Protein  
NUMBER OF SEQUENCES: 15  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Birch, Stewart, Kolasch & Birch  
STREET: P.O. Box 747  
CITY: Falls Church  
STATE: Virginia  
COUNTRY: USA  
ZIP: 22040-0747  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/246,403A  
FILING DATE: 20-MAY-1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Svensson, Leonard R.  
REGISTRATION NUMBER: 30330  
REFERENCE/DOCKET NUMBER: 2020-102P  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 703-205-8000  
TELEFAX: 703-205-8050  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 288 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-246-403A-3

Query Match 70.5%; Score 31; DB 1; Length 288;  
Best Local Similarity 66.7%; Pred. No. 1.1e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 ELTEVFPE 9  
Db 59 ELSTFEFA 67



RESULT 17  
US-08-246-403A-6  
Sequence 6, Application US/08246403A  
Patent No. 5583040  
GENERAL INFORMATION:  
APPLICANT: Kajl, Akira  
TITLE OF INVENTION: Mutation of RepA Protein  
NUMBER OF SEQUENCES: 15  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Birch, Stewart, Kolaesch & Birch  
STREET: P.O. Box 747  
CITY: Falls Church  
STATE: Virginia  
COUNTRY: USA  
ZIP: 22040-0747  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/246,403A  
FILING DATE: 20-MAY-1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Svensson, Leonard R.  
REGISTRATION NUMBER: 30330  
REFERENCE/DOCKET NUMBER: 2020-102P  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 703-205-8000  
TELEFAX: 703-205-8050  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 288 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-246-403A-6

Query Match 70.5%; Score 31; DB 1; Length 288;  
Best Local Similarity 66.7%; Pred. No. 1.1e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 ELTEVFEEA 9  
|||:||||  
Db 59 ELSTFEFA 67

RESULT 18  
US-09-248-796A-25339  
Sequence 25339, Application US/09248796A  
Patent No. 6747137  
GENERAL INFORMATION:  
APPLICANT: Keith Weinstock et al  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN  
FILE REFERENCE: 107196.132  
CURRENT APPLICATION NUMBER: US/09/248,796A  
CURRENT FILING DATE: 1999-02-12  
PRIOR APPLICATION NUMBER: US 60/074,725  
PRIOR FILING DATE: 1998-02-13  
PRIOR APPLICATION NUMBER: US 60/096,409  
PRIOR FILING DATE: 1998-08-13  
NUMBER OF SEQ ID NOS: 28208  
SEQ ID NO 25339  
LENGTH: 309  
TYPE: PRT  
ORGANISM: Candida albicans  
US-09-248-796A-25339

Query Match 70.5%; Score 31; DB 2; Length 309;

Best Local Similarity 75.0%; Pred. No. 1.2e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELTEVFEEA 8  
|||:||||  
Db 138 ELKDVFEEF 145

RESULT 19  
US-09-328-352-4643  
Sequence 4643, Application US/09328352  
Patent No. 6562958  
GENERAL INFORMATION:  
APPLICANT: Gary L. Breton et al  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER  
FILE REFERENCE: GTC99-03PA  
CURRENT APPLICATION NUMBER: US/09/328,352  
CURRENT FILING DATE: 1999-06-04  
NUMBER OF SEQ ID NOS: 8252  
SEQ ID NO 4643  
LENGTH: 429  
TYPE: PRT  
ORGANISM: Acinetobacter baumannii  
US-09-328-352-4643

Query Match 70.5%; Score 31; DB 2; Length 429;  
Best Local Similarity 66.7%; Pred. No. 1.7e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 ELTEVFEEA 9  
|||:||||  
Db 135 ELNSVFEEA 143

RESULT 20  
US-08-159-339A-1177  
Sequence 1177, Application US/08159339A  
Patent No. 6037135  
GENERAL INFORMATION:  
APPLICANT: Kubo, Ralph T.  
APPLICANT: Grey, Howard M.  
APPLICANT: Sette, Alessandro  
APPLICANT: Celis, Esben  
TITLE OF INVENTION: HLA Binding peptides and Their  
NUMBER OF SEQUENCES: 1254  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/159,339A  
FILING DATE: 29-NOV-1993  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/926,666  
FILING DATE: 07-AUG-1992  
APPLICATION NUMBER: US 08/027,746  
FILING DATE: 05-MAR-1993  
APPLICATION NUMBER: US 08/103,396  
FILING DATE: 06-AUG-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Weber, Ellen Lauver  
REGISTRATION NUMBER: 32,762

REFERENCE/DOCKET NUMBER: 018623-005030US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
TELEX:  
INFORMATION FOR SEQ ID NO: 1177:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 8 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-159-339A-1177

Query Match 68.2%; Score 30; DB 2; Length 8;  
Best Local Similarity 100.0%; Pred. No. 4; Gaps 0;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 EVFEFA 9  
:|||||  
Db 1 EVFEFA 6

RESULT 21  
US-09-663-600A-213  
Sequence 213, Application US/09663600A  
Patent No. 6573068  
GENERAL INFORMATION:  
APPLICANT: Dumas Mline Edwards, Jean-Baptiste  
APPLICANT: Duclert, Aymeric  
APPLICANT: Bougueleret, Lydie  
TITLE OF INVENTION: EXTENDED CDNAS FOR SECRETED PROTEINS  
FILE REFERENCE: 31.US3.CIP  
CURRENT APPLICATION NUMBER: US/09/663, 600A  
CURRENT FILING DATE: 2000-09-15  
PRIOR APPLICATION NUMBER: 09/191, 997  
PRIOR FILING DATE: 1998-11-13  
PRIOR APPLICATION NUMBER: 60/066, 677  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/069, 957  
PRIOR FILING DATE: 1997-12-17  
PRIOR APPLICATION NUMBER: 60/074, 121  
PRIOR FILING DATE: 1998-02-09  
PRIOR APPLICATION NUMBER: 60/081, 563  
PRIOR FILING DATE: 1998-04-13  
PRIOR APPLICATION NUMBER: 60/096, 116  
PRIOR FILING DATE: 1998-08-10  
PRIOR APPLICATION NUMBER: 60/099, 273  
PRIOR FILING DATE: 1998-09-04  
NUMBER OF SEQ ID NOS: 229  
SOFTWARE: Patent.pm  
SEQ ID NO 213  
LENGTH: 109  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-663-600A-213

Query Match 68.2%; Score 30; DB 2; Length 109;  
Best Local Similarity 85.7%; Pred. No. 62;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFE 7  
:|||||  
Db 83 ELTKVEFE 89

RESULT 22  
US-09-270-767-33279  
Sequence 33279, Application US/09270767  
Patent No. 6703491  
GENERAL INFORMATION:  
APPLICANT: Homburger et al.  
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster

FILE REFERENCE: File Reference: 7326-094  
CURRENT APPLICATION NUMBER: US/09/270, 767  
CURRENT FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 62517  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 33279  
LENGTH: 137  
TYPE: PRT  
ORGANISM: Drosophila melanogaster  
US-09-270-767-33279

Query Match 68.2%; Score 30; DB 2; Length 137;  
Best Local Similarity 75.0%; Pred. No. 79;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LTEVEFEFA 9  
:|||||  
Db 8 VTEPFEFA 15

RESULT 23  
US-09-270-767-48496  
Sequence 48496, Application US/09270767  
Patent No. 6703491  
GENERAL INFORMATION:  
APPLICANT: Homburger et al.  
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
FILE REFERENCE: File Reference: 7326-094  
CURRENT APPLICATION NUMBER: US/09/270, 767  
CURRENT FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 62517  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 48496  
LENGTH: 137  
TYPE: PRT  
ORGANISM: Drosophila melanogaster  
US-09-270-767-48496

Query Match 68.2%; Score 30; DB 2; Length 137;  
Best Local Similarity 75.0%; Pred. No. 79;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LTEVEFEFA 9  
:|||||  
Db 8 VTEPFEFA 15

RESULT 24  
US-08-187-186A-5  
Sequence 5, Application US/08187186A  
Patent No. 5923572  
GENERAL INFORMATION:  
APPLICANT: Craig A. Rosen; Henrik Olsen;  
APPLICANT: Mark D. Adams; and Ewen Kirkness  
TITLE OF INVENTION: HAEMOPOIETIC MATURATION FACTOR  
NUMBER OF SEQUENCES: 5  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: CARELLA, BYRNE, BAIN, GIFFILLAN,  
ADDRESSEE: CECCHI, STEWART & OLSTEIN  
STREET: 6 BECKER FARM ROAD  
CITY: ROSELAND  
STATE: NEW JERSEY  
COUNTRY: USA  
ZIP: 07068  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 INCH DISKETTE  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: WORD PERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/187, 186A  
FILING DATE: January 25, 1994  
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:  
NAME: MULLINS, J.G.  
REGISTRATION NUMBER: 33,073  
REFERENCE/DOCKET NUMBER: 325800-46 (PF105)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 201-994-1700  
TELEFAX: 201-994-1744  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 141 AMINO ACIDS  
TYPE: AMINO ACID  
STRANDEDNESS:  
TOPOLOGY: LINEAR  
MOLECULE TYPE: PROTEIN  
US-08-187-186A-5

Query Match 68.2%; Score 30; DB 1; Length 141;  
Best Local Similarity 85.7%; Pred. No. 82;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ELTEVEFE 7  
|||:||||  
Db 116 ELTKVFE 122

RESULT 25  
US-08-442-497C-9  
Sequence 9, Application US/08442497C  
Patent No. 5986069  
GENERAL INFORMATION:  
APPLICANT: KIRKNESS, ET AL.  
TITLE OF INVENTION: Human Haemopoietic Maturation  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: CARBLLA, BYRNE, BAIN, GILFILLAN,  
ADDRESSER: CECCHI, STEWART & OLSTEIN  
STREET: 6 BECKER FARM ROAD  
CITY: ROSELAND  
STATE: NEW JERSEY  
COUNTRY: USA  
ZIP: 07068  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 INCH DISKETTE  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: WORD PERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/442,497C  
FILING DATE: Concurrently  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/187,186  
FILING DATE: 25 JAN 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/US94/05186  
FILING DATE: 10 MAY 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: MULLINS, J.G.  
REGISTRATION NUMBER: 33,073  
REFERENCE/DOCKET NUMBER: 325800-282 (PF105P1)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 201-994-1700  
TELEFAX: 201-994-1744  
INFORMATION FOR SEQ ID NO: 9:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 141 AMINO ACIDS  
TYPE: AMINO ACID  
STRANDEDNESS:  
TOPOLOGY: LINEAR  
MOLECULE TYPE: PROTEIN  
US-08-442-497C-9

Query Match 68.2%; Score 30; DB 1; Length 141;  
Best Local Similarity 85.7%; Pred. No. 82;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ELTEVEFE 7  
|||:||||  
Db 116 ELTKVFE 122

RESULT 26  
US-09-333-033-9  
Sequence 9, Application US/09333033  
Patent No. 6346246  
GENERAL INFORMATION:  
APPLICANT: Kirkness et al.  
TITLE OF INVENTION: Human Haemopoietic Maturation Factor  
FILE REFERENCE: PF105PID1  
CURRENT APPLICATION NUMBER: US/09/333,033  
CURRENT FILING DATE: 1999-06-15  
PRIOR APPLICATION NUMBER: 08/442,497  
PRIOR FILING DATE: 1995-05-16  
PRIOR APPLICATION NUMBER: 08/187,186  
PRIOR FILING DATE: 1994-01-25  
NUMBER OF SEQ ID NOS: 9  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 9  
LENGTH: 141  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-333-033-9

Query Match 68.2%; Score 30; DB 2; Length 141;  
Best Local Similarity 85.7%; Pred. No. 82;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ELTEVEFE 7  
|||:||||  
Db 116 ELTKVFE 122

RESULT 27  
US-10-004-832-9  
Sequence 9, Application US/10004832  
Patent No. 6790826  
GENERAL INFORMATION:  
APPLICANT: Kirkness et al.  
TITLE OF INVENTION: Human Haemopoietic Maturation Factor  
FILE REFERENCE: PF105PID2  
CURRENT APPLICATION NUMBER: US/10/004,832  
CURRENT FILING DATE: 2001-12-07  
PRIOR APPLICATION NUMBER: US 09/333,033  
PRIOR FILING DATE: 1999-06-15  
PRIOR APPLICATION NUMBER: US 08/442,497  
PRIOR FILING DATE: 1995-05-16  
PRIOR APPLICATION NUMBER: US 08/187,186  
PRIOR FILING DATE: 1994-01-25  
NUMBER OF SEQ ID NOS: 9  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 9  
LENGTH: 141  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-004-832-9

Query Match 68.2%; Score 30; DB 2; Length 141;  
Best Local Similarity 85.7%; Pred. No. 82;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ELTEVEFE 7  
|||:||||  
Db 116 ELTKVFE 122

RESULT 28  
US-08-187-186A-2  
Sequence 2, Application US/08187186A  
Patent No. 5922572  
GENERAL INFORMATION:  
APPLICANT: Craig A. Rosen, Henrik Olsen;  
APPLICANT: Mark D. Adams; and Ewen Kirkness  
TITLE OF INVENTION: HAEMOPOIETIC MATURATION FACTOR  
NUMBER OF SEQUENCES: 5  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,  
ADDRESSEE: CECCHI, STEWART & OLSTEIN  
STREET: 6 BECKER FARM ROAD  
CITY: ROSELAND  
STATE: NEW JERSEY  
COUNTRY: USA  
ZIP: 07068  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 INCH DISKETTE  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: WORD PERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/187,186A  
FILING DATE: January 25, 1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: MULLINS, J.G.  
REGISTRATION NUMBER: 33,073  
REFERENCE/DOCKET NUMBER: 325800-46 (PF105)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 201-994-1700  
TELEFAX: 201-994-1744  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 142 AMINO ACIDS  
TYPE: AMINO ACID  
STRANDEDNESS:  
TOPOLOGY: LINEAR  
MOLECULE TYPE: PROTEIN  
US-08-187-186A-2

Query Match 68.2%; Score 30; DB 1; Length 142;  
Best Local Similarity 85.7%; Pred. No. 83;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFE 7  
|||:||||  
Db 116 ELTKVFE 122

RESULT 29  
US-08-442-497C-2  
Sequence 2, Application US/08442497C  
Patent No. 5986069  
GENERAL INFORMATION:  
APPLICANT: KIRKNESS, ET AL.  
TITLE OF INVENTION: Human Haemopoietic Maturation  
Factor  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,  
ADDRESSEE: CECCHI, STEWART & OLSTEIN  
STREET: 6 BECKER FARM ROAD  
CITY: ROSELAND  
STATE: NEW JERSEY  
COUNTRY: USA  
ZIP: 07068  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 INCH DISKETTE  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: WORD PERFECT 5.1

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/442,497C  
FILING DATE: Concurrently  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/187,186  
FILING DATE: 25 JAN 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/US94/05186  
FILING DATE: 10 MAY 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: MULLINS, J.G.  
REGISTRATION NUMBER: 33,073  
REFERENCE/DOCKET NUMBER: 325800-282 (PF105P1)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 201-994-1700  
TELEFAX: 201-994-1744  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 142 AMINO ACIDS  
TYPE: AMINO ACID  
STRANDEDNESS:  
TOPOLOGY: LINEAR  
MOLECULE TYPE: PROTEIN  
US-08-442-497C-2

Query Match 68.2%; Score 30; DB 1; Length 142;  
Best Local Similarity 85.7%; Pred. No. 83;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFE 7  
|||:||||  
Db 116 ELTKVFE 122

RESULT 30  
US-09-333-033-2  
Sequence 2, Application US/09333033  
Patent No. 6346246  
GENERAL INFORMATION:  
APPLICANT: Kirkness et al.  
TITLE OF INVENTION: Human Haemopoietic Maturation Factor  
FILE REFERENCE: PF105P1D1  
CURRENT APPLICATION NUMBER: US/09/333,033  
CURRENT FILING DATE: 1999-06-15  
PRIOR APPLICATION NUMBER: 08/442,497  
PRIOR FILING DATE: 1995-05-16  
PRIOR APPLICATION NUMBER: 08/187,186  
PRIOR FILING DATE: 1994-01-25  
NUMBER OF SEQ ID NOS: 9  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 2  
LENGTH: 142  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-333-033-2

Query Match 68.2%; Score 30; DB 2; Length 142;  
Best Local Similarity 85.7%; Pred. No. 83;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFE 7  
|||:||||  
Db 116 ELTKVFE 122

RESULT 31  
US-09-663-600A-229  
Sequence 229, Application US/09663600A  
Patent No. 6573068  
GENERAL INFORMATION:  
APPLICANT: Dumas Milne Edwards, Jean-Baptiste  
APPLICANT: Duclert, Aymeric

```
; APPLICANT: Bouguetel, Lydie
; TITLE OF INVENTION: EXTENDED CDNAS FOR SECRETED PROTEINS
; FILE REFERENCE: 31.US3.CIP
; CURRENT APPLICATION NUMBER: US/09/663,600A
; CURRENT FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: 09/191,997
; PRIOR FILING DATE: 1998-11-13
; PRIOR APPLICATION NUMBER: 60/066,677
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/069,957
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/074,121
; PRIOR FILING DATE: 1998-02-09
; PRIOR APPLICATION NUMBER: 60/081,563
; PRIOR FILING DATE: 1998-04-13
; PRIOR APPLICATION NUMBER: 60/096,116
; PRIOR FILING DATE: 1998-08-10
; PRIOR APPLICATION NUMBER: 60/099,273
; PRIOR FILING DATE: 1998-09-04
; NUMBER OF SEQ ID NOS: 229
; SOFTWARE: Patent.pm
; SEQ ID NO 229
; LENGTH: 142
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-663-600A-229

Query Match      68.2%; Score 30; DB 2; Length 142;
Best Local Similarity 85.7%; Pred. No. 83;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY      1 ELTEVFE 7
        |||:||||
Db      116 ELTKVFE 122

RESULT 32
US-10-004-832-2
; Sequence 2, Application US/10004832
; Patent No. 6790826
; GENERAL INFORMATION:
; APPLICANT: KIRKNESS et al.
; TITLE OF INVENTION: Human Haemopoietic Maturation Factor
; FILE REFERENCE: PF105P1D2
; CURRENT APPLICATION NUMBER: US/10/004,832
; CURRENT FILING DATE: 2001-12-07
; PRIOR APPLICATION NUMBER: US 09/333,033
; PRIOR FILING DATE: 1999-06-15
; PRIOR APPLICATION NUMBER: US 08/442,497
; PRIOR FILING DATE: 1995-05-16
; PRIOR APPLICATION NUMBER: US 08/187,186
; PRIOR FILING DATE: 1994-01-25
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 2
; LENGTH: 142
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-004-832-2

Query Match      68.2%; Score 30; DB 2; Length 142;
Best Local Similarity 85.7%; Pred. No. 83;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY      1 ELTEVFE 7
        |||:||||
Db      116 ELTKVFE 122

RESULT 33
PCT-US94-05186-2
; Sequence 2, Application PC/TUS9405186
; GENERAL INFORMATION:
```

```
; APPLICANT: KIRKNESS, ET AL.
; TITLE OF INVENTION: Haemopoietic Maturation Factor
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,
; ADDRESSEE: CECCHI, STEWART & OLSTEIN
; STREET: 6 BECKER FARM ROAD
; CITY: ROSELAND
; STATE: NEW JERSEY
; COUNTRY: USA
; ZIP: 07068
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 INCH DISKETTE
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WORD PERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/05186
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/187,186
; FILING DATE: 25 JANUARY 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: FERRARO, GREGORY D.
; REGISTRATION NUMBER: 36,134
; REFERENCE/DOCKET NUMBER: 325800-46
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-994-1700
; TELEFAX: 201-994-1744
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 142 AMINO ACIDS
; TYPE: AMINO ACID
; STRANDEDNESS:
; TOPOLOGY: LINEAR
; MOLECULE TYPE: PROTEIN
; PCT-US94-05186-2
```

```
Query Match      68.2%; Score 30; DB 4; Length 142;
Best Local Similarity 85.7%; Pred. No. 83;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY      1 ELTEVFE 7
        |||:||||
Db      116 ELTKVFE 122

RESULT 34
US-09-949-016-11009
; Sequence 11009, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11009
; LENGTH: 143
; TYPE: PRT
; ORGANISM: Human
; US-09-949-016-11009
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Query Match 68.2%; Score 30; DB 2; Length 143;  
Best Local Similarity 85.7%; Pred. No. 83;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEF 7  
|||:||||  
Db 117 ELTKVEF 123

RESULT 35  
US-09-949-016-7648  
; Sequence 7648, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: C1001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FASTSEQ for Windows Version 4.0  
; SEQ ID NO 7648  
; LENGTH: 157  
; TYPE: PRT  
; ORGANISM: Human  
US-09-949-016-7648

Query Match 68.2%; Score 30; DB 2; Length 157;  
Best Local Similarity 85.7%; Pred. No. 92;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEF 7  
|||:||||  
Db 131 ELTKVEF 137

RESULT 36  
US-10-104-047-2458  
; Sequence 2458, Application US/10104047  
; Patent No. 6943241  
; GENERAL INFORMATION:  
; APPLICANT: HELIX RESEARCH INSTITUTE  
; TITLE OF INVENTION: No. 6943241el full length CDNA  
; FILE REFERENCE: H1-A0105  
; CURRENT APPLICATION NUMBER: US/10/104,047  
; CURRENT FILING DATE: 2002-03-25  
; PRIOR APPLICATION NUMBER:  
; PRIOR FILING DATE:  
; NUMBER OF SEQ ID NOS: 4096  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 2458  
; LENGTH: 311  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-104-047-2458

Query Match 68.2%; Score 30; DB 2; Length 311;  
Best Local Similarity 66.7%; Pred. No. 1.9e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELTEVEFA 9  
|||:||||  
Db 37 ENSLEFEFA 45

RESULT 37

US-09-252-991A-17899  
; Sequence 17899, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfeld et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 17899  
; LENGTH: 323  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-17899

Query Match 68.2%; Score 30; DB 2; Length 323;  
Best Local Similarity 75.0%; Pred. No. 2e+02;  
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 ELTEVEF 8  
|||:||||  
Db 149 ELTEAF 156

RESULT 38  
US-09-328-352-7138  
; Sequence 7138, Application US/09328352  
; Patent No. 6562958  
; GENERAL INFORMATION:  
; APPLICANT: Gary L. Breton et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER  
; FILE REFERENCE: GTC99-03PA  
; CURRENT APPLICATION NUMBER: US/09/328,352  
; CURRENT FILING DATE: 1999-06-04  
; NUMBER OF SEQ ID NOS: 8252  
; SEQ ID NO 7138  
; LENGTH: 327  
; TYPE: PRT  
; ORGANISM: Acinetobacter baumannii  
US-09-328-352-7138

Query Match 68.2%; Score 30; DB 2; Length 327;  
Best Local Similarity 75.0%; Pred. No. 2e+02;  
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 ELTEVEF 8  
|||:||||  
Db 75 ELTSYF 82

RESULT 39  
US-09-134-000C-6752  
; Sequence 6752, Application US/09134000C  
; Patent No. 6617156  
; GENERAL INFORMATION:  
; APPLICANT: Lynn Doucette-Stamm et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO  
; FILE REFERENCE: 032796-032  
; CURRENT APPLICATION NUMBER: US/09/134,000C  
; CURRENT FILING DATE: 1998-08-13  
; PRIOR APPLICATION NUMBER: US 60/055,778  
; PRIOR FILING DATE: 1997-08-15  
; NUMBER OF SEQ ID NOS: 6812  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 6752

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; LENGTH: 356
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-134-000C-6752

Query Match      68.2%; Score 30; DB 2; Length 356;
Best Local Similarity 62.5%; Pred. No. 2.2e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      1 ELTEVEEP 8
       :|:|:|
Db      34 DLDBIEP 41

RESULT 40
US-09-902-540-13185
; Sequence 13185, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wisgand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 13185
; LENGTH: 365
; TYPE: PRT
; ORGANISM: Myxococcus xanthus
US-09-902-540-13185

Query Match      68.2%; Score 30; DB 2; Length 365;
Best Local Similarity 85.7%; Pred. No. 2.3e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      2 LTEVEEP 8
       :|:|:|
Db      65 LNEVEEP 71

RESULT 41
US-09-270-767-35242
; Sequence 35242, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 35242
; LENGTH: 455
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-35242

Query Match      68.2%; Score 30; DB 2; Length 455;
Best Local Similarity 44.4%; Pred. No. 2.9e+02;
Matches 4; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ELTEVEEPA 9
       :|:|:|
Db      108 KLTDIYQFA 116

US-09-252-991A-16965
; Sequence 16965, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 16965
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-16965

Query Match      68.2%; Score 30; DB 2; Length 696;
Best Local Similarity 62.5%; Pred. No. 4.6e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      1 ELTEVEEP 8
       :|:|:|
Db      263 EIAELPEP 270

RESULT 42
US-09-270-767-50459
; Sequence 50459, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 50459
; LENGTH: 455
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-50459

Query Match      68.2%; Score 30; DB 2; Length 455;
Best Local Similarity 44.4%; Pred. No. 2.9e+02;
Matches 4; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ELTEVEEPA 9
       :|:|:|
Db      108 KLTDIYQFA 116

RESULT 43
US-09-252-991A-16965
; Sequence 16965, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 16965
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-16965

Query Match      68.2%; Score 30; DB 2; Length 696;
Best Local Similarity 62.5%; Pred. No. 4.6e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      1 ELTEVEEP 8
       :|:|:|
Db      263 EIAELPEP 270

RESULT 44
US-09-538-092-225
; Sequence 225, Application US/09538092
; Patent No. 6753314
; GENERAL INFORMATION:
; APPLICANT: Gioc, Loic
; APPLICANT: Manefield, Traci A.
; TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same
; FILE REFERENCE: 15966-542
; CURRENT APPLICATION NUMBER: US/09/538,092
; CURRENT FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: 60/127,352
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;; PRIOR FILING DATE: 1999-04-01  
;; PRIOR APPLICATION NUMBER: 60/178,965  
;; PRIOR FILING DATE: 2000-02-01  
;; NUMBER OF SEQ ID NOS: 1387  
;; SOFTWARE: CuratSeqFormatter Version 0.9  
;; SEQ ID NO: 225  
;; LENGTH: 733  
;; TYPE: PRT  
;; ORGANISM: Saccharomyces cerevisiae  
;; FEATURE:  
;; NAME/KEY: misc\_feature  
;; LOCATION: (0)...(0)  
;; OTHER INFORMATION: Polypeptide Accession Number YEL053C  
US-09-538-092-225

Query Match 68.2%; Score 30; DB 2; Length 733;  
Best Local Similarity 75.0%; Pred. No. 4.9e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 2 L7EVEFEPA 9  
Db 551 L7EVEFEPA 558

RESULT 45  
US-09-585-858-15  
;; Sequence 15, Application US/09585858  
;; Patent No. 6492161  
;; GENERAL INFORMATION:  
;; APPLICANT: Sigridur Hjorleifsdottir  
;; APPLICANT: Gudmundur O. Hreggvidsson  
;; APPLICANT: Olafur H. Fridjonsson  
;; APPLICANT: Arnthor Aevartsson  
;; APPLICANT: Jakob K. Kristjansson  
;; TITLE OF INVENTION: Bacteriophage RM378 of a Thermophilic  
;; FILE REFERENCE: 2739.1001-001  
;; CURRENT APPLICATION NUMBER: US/09/585,858  
;; PRIOR FILING DATE: 2000-12-18  
;; PRIOR APPLICATION NUMBER: 60/137,120  
;; PRIOR FILING DATE: 1999-06-02  
;; NUMBER OF SEQ ID NOS: 73  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO: 15  
;; LENGTH: 764  
;; TYPE: PRT  
;; ORGANISM: Herpesvirus saimiri (strain 11)  
US-09-585-858-15

Query Match 68.2%; Score 30; DB 2; Length 764;  
Best Local Similarity 75.0%; Pred. No. 5.1e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 EL7EVEFE 8  
Db 121 EN7EVEFE 128

RESULT 46  
US-10-270-878-15  
;; Sequence 15, Application US/10270878  
;; Patent No. 6818425  
;; GENERAL INFORMATION:  
;; APPLICANT: Sigridur Hjorleifsdottir  
;; APPLICANT: Gudmundur O. Hreggvidsson  
;; APPLICANT: Olafur H. Fridjonsson  
;; APPLICANT: Arnthor Aevartsson  
;; APPLICANT: Jakob K. Kristjansson  
;; TITLE OF INVENTION: Bacteriophage RM378 of a Thermophilic  
;; FILE REFERENCE: 2739.1001-001  
;; CURRENT APPLICATION NUMBER: US/10/270,878  
;; CURRENT FILING DATE: 2002-10-11

;; PRIOR APPLICATION NUMBER: US/09/585,858  
;; PRIOR FILING DATE: 2000-12-18  
;; NUMBER OF SEQ ID NOS: 73  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO: 15  
;; LENGTH: 764  
;; TYPE: PRT  
;; ORGANISM: Herpesvirus saimiri (strain 11)  
US-10-270-878-15

Query Match 68.2%; Score 30; DB 2; Length 764;  
Best Local Similarity 75.0%; Pred. No. 5.1e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 EL7EVEFE 8  
Db 121 EN7EVEFE 128

RESULT 47  
US-08-680-326-31  
;; Sequence 31, Application US/08680326  
;; Patent No. 5925733  
;; GENERAL INFORMATION:  
;; APPLICANT: ROSE, TIMOTHY M.  
;; APPLICANT: BOSCH, MARINIX  
;; APPLICANT: STRAND, KURT  
;; APPLICANT: TODARO, GEORGE J.  
;; TITLE OF INVENTION: DNA POLYMERASE OF GAMMA HERPES VIRUSES  
;; TITLE OF INVENTION: ASSOCIATED WITH KAPOSI'S SARCOMA AND RETROPERITONEAL  
;; NUMBER OF SEQUENCES: 152  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: MORRISON & FOERSTER  
;; STREET: 755 Page Mill Road  
;; CITY: Palo Alto  
;; STATE: California  
;; COUNTRY: USA  
;; ZIP: 94304-1018  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Floppy disk  
;; COMPUTER: IBM PC compatible  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: Patent Release #1.0, Version #1.30  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/680,326  
;; FILING DATE:  
;; CLASSIFICATION: 514  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Schiff, J. Michael  
;; REGISTRATION NUMBER: 40,253  
;; REFERENCE/DOCKET NUMBER: 29938-20001.00  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (415) 813-5600  
;; TELEFAX: (415) 494-0792  
;; TELEX: 706141  
;; INFORMATION FOR SEQ ID NO: 31:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 1009 amino acids  
;; TYPE: amino acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
US-08-680-326-31

Query Match 68.2%; Score 30; DB 1; Length 1009;  
Best Local Similarity 75.0%; Pred. No. 6.9e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 EL7EVEFE 8  
Db 336 EN7EVEFE 343



RESULT 48  
US-09-949-016-7109  
; Sequence 7109, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: C1001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FASTSEQ for Windows Version 4.0  
; SEQ ID NO 7109  
; LENGTH: 1395  
; TYPE: PRT  
; ORGANISM: Human  
US-09-949-016-7109

Query Match 68.2%; Score 30; DB 2; Length 1395;  
Best Local Similarity 62.5%; Pred. No. 9.8e+02;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEEP 8  
||:|:|:  
DB 564 ELSDVDF 571

RESULT 49  
US-08-383-753-59  
; Sequence 59, Application US/08383753  
; Patent No. 5723584  
; GENERAL INFORMATION:  
; APPLICANT: Schatz, Peter J.  
; TITLE OF INVENTION: Biotinylation of Proteins  
; NUMBER OF SEQUENCES: 102  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: Townsend and Townsend Kourie and Crew  
; STREET: One Market Plaza, Stewart Tower  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94105  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/383,753  
; FILING DATE: 03-FEB-1995  
; CLASSIFICATION: 530  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/099,991  
; FILING DATE: 30-JUL-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Smith, William M.  
; REGISTRATION NUMBER: 30,223  
; REFERENCE/DOCKET NUMBER: 1038.1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-326-2400  
; TELEFAX: 415-326-2422  
; INFORMATION FOR SEQ ID NO: 59:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 18 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single

TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-383-753-59

Query Match 65.9%; Score 29; DB 1; Length 18;  
Best Local Similarity 71.4%; Pred. No. 14;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEEP 7  
||:|:|:  
DB 3 KLTRIFE 9

RESULT 50  
US-08-586-772-59  
; Sequence 59, Application US/08586772  
; Patent No. 5874239  
; GENERAL INFORMATION:  
; APPLICANT: Schatz, Peter J.  
; TITLE OF INVENTION: Biotinylation of Proteins  
; NUMBER OF SEQUENCES: 102  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: Townsend and Townsend Kourie and Crew  
; STREET: One Market Plaza, Stewart Tower  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94105  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/586,772  
; FILING DATE: 03-FEB-1995  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/099,991  
; FILING DATE: 30-JUL-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Smith, William M.  
; REGISTRATION NUMBER: 30,223  
; REFERENCE/DOCKET NUMBER: 1038.1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-326-2400  
; TELEFAX: 415-326-2422  
; INFORMATION FOR SEQ ID NO: 59:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 18 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-586-772-59

Query Match 65.9%; Score 29; DB 1; Length 18;  
Best Local Similarity 71.4%; Pred. No. 14;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEEP 7  
||:|:|:  
DB 3 KLTRIFE 9

Search completed: May 5, 2006, 01:38:04  
Job time : 24.2 secs

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OM protein - protein search, using sw model

Run on: May 5, 2006, 07:10:32 ; Search time 68.2 Seconds  
(without alignments)  
55.139 Million cell updates/sec

Title: US-08-170-344-26

Perfect score: 44  
Sequence: 1 ELTFVFEFA 9

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database : Published Applications\_AA\_Main:\*

- 1: /cgn2\_6/ptodata/1/pubppaa/US07\_PUBSCOMB.pep:\*
- 2: /cgn2\_6/ptodata/1/pubppaa/US08\_PUBSCOMB.pep:\*
- 3: /cgn2\_6/ptodata/1/pubppaa/US09\_PUBSCOMB.pep:\*
- 4: /cgn2\_6/ptodata/1/pubppaa/US10A\_PUBSCOMB.pep:\*
- 5: /cgn2\_6/ptodata/1/pubppaa/US10B\_PUBSCOMB.pep:\*
- 6: /cgn2\_6/ptodata/1/pubppaa/US11\_PUBSCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	44	100.0	9	5	US-10-751-845-133 Sequence 133, App
2	44	100.0	42	5	US-10-751-845-152 Sequence 152, App
3	44	100.0	119	5	US-10-751-845-159 Sequence 159, App
4	44	100.0	158	5	US-10-800-023-27 Sequence 27, App
5	44	100.0	158	6	US-11-021-949-28 Sequence 28, App
6	44	100.0	172	4	US-10-472-724-6 Sequence 6, App
7	44	100.0	236	5	US-10-751-845-157 Sequence 157, App
8	44	100.0	237	5	US-10-751-845-158 Sequence 158, App
9	44	100.0	261	5	US-10-751-845-160 Sequence 160, App
10	44	100.0	278	4	US-10-000-903-21 Sequence 21, App
11	44	100.0	278	5	US-10-899-771-21 Sequence 21, App
12	44	100.0	383	4	US-10-000-903-23 Sequence 23, App
13	44	100.0	383	4	US-10-899-771-23 Sequence 23, App
14	40	90.9	10	5	US-10-751-845-136 Sequence 136, App
15	39	88.6	10	5	US-10-751-845-127 Sequence 127, App
16	37	84.1	322	4	US-10-321-204-36 Sequence 36, App
17	35	79.5	244	4	US-10-282-122A-50681 Sequence 50681, A
18	34	77.3	336	4	US-09-815-242-13832 Sequence 13832, A
19	34	77.3	336	4	US-10-282-122A-74880 Sequence 74880, A
20	34	77.3	336	4	US-10-282-122A-76245 Sequence 76245, A
21	34	77.3	344	4	US-10-282-122A-73043 Sequence 73043, A
22	34	77.3	346	4	US-09-815-242-10162 Sequence 10162, A
23	34	77.3	346	4	US-10-369-493-833 Sequence 833, App
24	34	77.3	346	4	US-10-282-122A-55648 Sequence 55648, A
25	33	75.0	139	4	US-10-767-701-52361 Sequence 52361, A
26	33	75.0	180	4	US-10-425-115-192145 Sequence 192145, A
27	33	75.0	299	4	US-10-282-122A-71438 Sequence 71438, A

28	33	75.0	712	3	US-09-893-519A-35 Sequence 35, App
29	33	75.0	722	4	US-10-032-585-7153 Sequence 7153, App
30	32	72.7	104	4	US-10-425-115-229096 Sequence 229096, A
31	32	72.7	158	6	US-11-021-949-29 Sequence 29, App
32	32	72.7	158	6	US-11-021-949-30 Sequence 30, App
33	32	72.7	158	6	US-11-021-949-31 Sequence 31, App
34	32	72.7	162	6	US-11-021-949-31 Sequence 31, App
35	32	72.7	441	4	US-10-369-493-18771 Sequence 18771, A
36	32	72.7	454	4	US-10-767-701-41242 Sequence 41242, A
37	32	72.7	478	4	US-10-425-114-38072 Sequence 38072, A
38	32	72.7	496	4	US-10-193-896-11 Sequence 11, App
39	32	72.7	496	4	US-10-369-493-2914 Sequence 2914, App
40	32	72.7	504	4	US-10-425-114-64036 Sequence 64036, A
41	32	72.7	537	4	US-10-425-114-64000 Sequence 64000, A
42	32	72.7	550	4	US-10-425-114-41988 Sequence 41988, A
43	32	72.7	639	4	US-10-425-115-291636 Sequence 291636, A
44	32	72.7	683	4	US-10-425-115-265119 Sequence 265119, A
45	32	72.7	761	4	US-10-425-115-265128 Sequence 265128, A
46	32	72.7	787	4	US-10-437-963-126524 Sequence 126524, A
47	32	72.7	1053	4	US-10-437-963-126523 Sequence 126523, A
48	32	72.7	1347	4	US-10-437-963-164673 Sequence 164673, A
49	32	72.7	1555	4	US-10-128-714-3298 Sequence 3298, App
50	32	72.7	1832	4	US-10-128-714-3298 Sequence 3298, App
51	31	70.5	56	4	US-10-424-599-172229 Sequence 172229, A
52	31	70.5	72	4	US-10-424-599-172229 Sequence 172229, A
53	31	70.5	144	4	US-10-425-115-269044 Sequence 269044, A
54	31	70.5	233	4	US-10-437-963-204259 Sequence 204259, A
55	31	70.5	283	4	US-10-425-115-347695 Sequence 347695, A
56	31	70.5	283	4	US-10-425-115-347698 Sequence 347698, A
57	31	70.5	299	5	US-10-926-543-53 Sequence 53, App
58	31	70.5	299	5	US-10-450-763-30527 Sequence 30527, A
59	31	70.5	336	3	US-09-815-242-12430 Sequence 12430, A
60	31	70.5	336	4	US-10-282-122A-44155 Sequence 44155, A
61	31	70.5	339	3	US-09-815-242-9496 Sequence 9496, App
62	31	70.5	363	4	US-10-437-963-104558 Sequence 104558, A
63	31	70.5	385	4	US-10-425-114-66548 Sequence 66548, A
64	31	70.5	417	4	US-10-437-963-145671 Sequence 145671, A
65	31	70.5	427	4	US-10-282-122A-44558 Sequence 44558, A
66	31	70.5	478	5	US-10-367-057-60 Sequence 60, App
67	31	70.5	492	5	US-10-732-923-22453 Sequence 22453, A
68	31	70.5	1856	5	US-10-922-282-36 Sequence 36, App
69	31	70.5	3414	5	US-10-922-282-6 Sequence 6, App
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72	31	70.5	5496	6	US-11-097-143-282128 Sequence 282128, A
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74	30	68.2	16	5	US-10-713-978A-67 Sequence 67, App
75	30	68.2	16	5	US-10-713-978A-67 Sequence 67, App
76	30	68.2	36	3	US-10-433-970-14 Sequence 14, App
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78	30	68.2	37	4	US-10-097-065-605 Sequence 605, App
79	30	68.2	37	4	US-10-372-876-605 Sequence 605, App
80	30	68.2	66	3	US-09-815-242-5767 Sequence 5767, App
81	30	68.2	71	3	US-09-815-242-12499 Sequence 12499, A
82	30	68.2	101	4	US-10-282-122A-45430 Sequence 45430, A
83	30	68.2	109	4	US-09-978-360A-725 Sequence 725, App
84	30	68.2	109	4	US-10-319-763-213 Sequence 213, App
85	30	68.2	109	4	US-10-319-763-213 Sequence 213, App
86	30	68.2	120	4	US-10-335-970-7340 Sequence 7340, App
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88	30	68.2	122	4	US-10-372-876-609 Sequence 609, App
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92	30	68.2	142	4	US-10-319-763-229 Sequence 229, App
93	30	68.2	142	4	US-10-116-275-219 Sequence 219, App
94	30	68.2	142	4	US-10-851-921-4 Sequence 4, App
95	30	68.2	147	5	US-09-925-302-642 Sequence 642, App
96	30	68.2	147	3	US-09-925-302-642 Sequence 642, App
97	30	68.2	155	4	US-10-425-115-319498 Sequence 319498, A
98	30	68.2	160	6	US-11-021-949-32 Sequence 32, App
99	30	68.2	163	3	US-09-864-761-34365 Sequence 34365, A
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103	30	68.2	200	4	US-10-424-599-180025	Sequence 180025,	176	29	65.9	240	4	US-10-264-049-3929	Sequence 3929, App
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105	30	68.2	209	5	US-10-739-930-5964	Sequence 5964, App	178	29	65.9	243	4	US-10-282-122A-56505	Sequence 56905, A
106	30	68.2	218	5	US-10-739-930-9489	Sequence 9489, App	179	29	65.9	263	4	US-10-470-992-2	Sequence 2, App1
107	30	68.2	221	4	US-10-335-977-7342	Sequence 7342, App	180	29	65.9	281	4	US-10-425-114-73043	Sequence 73043, A
108	30	68.2	222	4	US-10-425-115-349097	Sequence 349097,	181	29	65.9	283	4	US-10-425-115-347699	Sequence 347699, A
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110	30	68.2	254	4	US-10-425-115-373370	Sequence 273370,	183	29	65.9	287	3	US-10-501-282-2978	Sequence 2978, App
111	30	68.2	295	4	US-10-437-963-139601	Sequence 139601,	184	29	65.9	288	3	US-09-764-868-979	Sequence 979, App
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114	30	68.2	406	5	US-10-733-923-10311	Sequence 10311, A	187	29	65.9	308	4	US-10-437-963-102873	Sequence 102873, A
115	30	68.2	432	4	US-10-369-493-9774	Sequence 9774, App	188	29	65.9	308	4	US-10-289-762-310	Sequence 310, App
116	30	68.2	447	4	US-10-156-761-14785	Sequence 14785, A	189	29	65.9	308	4	US-10-282-122A-54422	Sequence 54822, A
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118	30	68.2	492	3	US-09-733-091-2	Sequence 2, App1	191	29	65.9	314	4	US-10-425-114-57186	Sequence 57186, A
119	30	68.2	492	4	US-10-282-122A-58662	Sequence 58662, A	192	29	65.9	331	4	US-10-369-493-18895	Sequence 18895, A
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123	30	68.2	504	3	US-10-433-970-42	Sequence 42, App1	196	29	65.9	344	5	US-10-884-449-65	Sequence 65, App1
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129	30	68.2	618	5	US-10-732-923-18668	Sequence 18668, A	202	29	65.9	370	4	US-10-072-012-625	Sequence 625, App
130	30	68.2	680	4	US-10-282-122A-69670	Sequence 69670, A	203	29	65.9	370	4	US-10-072-012-674	Sequence 674, App
131	30	68.2	680	4	US-10-275-595A-32	Sequence 32, App1	204	29	65.9	373	5	US-10-739-930-9924	Sequence 9924, App
132	30	68.2	682	4	US-10-282-122A-66174	Sequence 66174, A	205	29	65.9	386	6	US-11-097-143-17160	Sequence 17160, A
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134	30	68.2	764	4	US-10-270-875-15	Sequence 15, App1	207	29	65.9	408	4	US-10-214-446-4	Sequence 4, App1
135	30	68.2	764	4	US-10-270-878-15	Sequence 15, App1	208	29	65.9	417	5	US-10-965-898-67	Sequence 67, App1
136	30	68.2	764	4	US-10-270-786-15	Sequence 15, App1	209	29	65.9	420	4	US-10-282-122A-76802	Sequence 76802, A
137	30	68.2	764	4	US-10-270-710-15	Sequence 15, App1	210	29	65.9	427	4	US-10-369-493-16633	Sequence 16633, A
138	30	68.2	764	4	US-10-270-859-15	Sequence 15, App1	211	29	65.9	445	4	US-10-158-057-371	Sequence 371, App
139	30	68.2	764	4	US-10-270-846-15	Sequence 15, App1	212	29	65.9	482	5	US-10-450-763-39081	Sequence 39081, A
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141	30	68.2	1070	4	US-10-291-265-721	Sequence 721, App	214	29	65.9	478	4	US-10-369-493-4120	Sequence 4120, App
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143	30	68.2	1194	4	US-10-291-265-449	Sequence 249, App	216	29	65.9	488	4	US-10-425-115-299778	Sequence 299778, A
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146	30	68.2	1499	4	US-10-036-534-67	Sequence 67, App1	219	29	65.9	466	5	US-10-684-422-36	Sequence 36, App1
147	30	68.2	1508	4	US-10-002-769-15	Sequence 15, App1	220	29	65.9	466	5	US-10-820-060-4	Sequence 4, App1
148	30	68.2	1508	4	US-10-024-623-35	Sequence 35, App1	221	29	65.9	504	4	US-10-437-963-202896	Sequence 202896, A
149	30	68.2	1508	4	US-10-154-419-47	Sequence 47, App1	222	29	65.9	505	4	US-10-437-963-147453	Sequence 147453, A
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152	30	68.2	2344	5	US-10-732-923-13978	Sequence 13978, A	225	29	65.9	524	4	US-10-369-493-11968	Sequence 11968, A
153	30	68.2	2570	5	US-10-450-763-56774	Sequence 56774, A	226	29	65.9	544	4	US-10-377-963-114217	Sequence 114217, A
154	29	65.9	18	5	US-10-473-882-59	Sequence 59, App1	227	29	65.9	577	5	US-10-820-060-2	Sequence 2, App1
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158	29	65.9	97	4	US-10-424-599-282840	Sequence 282840,	231	29	65.9	582	4	US-10-408-765A-970	Sequence 970, App
159	29	65.9	100	5	US-10-732-923-16997	Sequence 16997, A	232	29	65.9	582	4	US-10-408-765A-971	Sequence 971, App
160	29	65.9	106	4	US-10-437-963-139592	Sequence 139592,	233	29	65.9	582	5	US-10-370-7158-718	Sequence 718, App
161	29	65.9	106	4	US-10-425-115-469016	Sequence 269016,	234	29	65.9	589	3	US-09-911-9099-15	Sequence 15, App1
162	29	65.9	110	4	US-10-425-115-03813	Sequence 303813,	235	29	65.9	589	4	US-10-369-493-2007	Sequence 2007, App
163	29	65.9	140	4	US-10-724-972A-5575	Sequence 5575, App	236	29	65.9	589	4	US-10-369-493-22011	Sequence 22011, A
164	29	65.9	144	4	US-10-425-115-196501	Sequence 196501,	237	29	65.9	589	4	US-10-369-493-22071	Sequence 22071, A
165	29	65.9	154	4	US-10-767-701-37792	Sequence 37792, A	238	29	65.9	589	4	US-10-369-493-22184	Sequence 22184, A
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168	29	65.9	167	4	US-10-282-122A-71633	Sequence 71633, A	241	29	65.9	652	6	US-11-097-143-30714	Sequence 30714, A
169	29	65.9	168	5	US-10-501-282-5932	Sequence 5932, App	242	29	65.9	667	4	US-10-104-047-2651	Sequence 2651, App
170	29	65.9	169	6	US-11-097-143-56648	Sequence 56648, A	243	29	65.9	687	6	US-11-013-684-7	Sequence 7, App
171	29	65.9	190	4	US-10-724-972A-4042	Sequence 4042, App	244	29	65.9	688	4	US-10-369-493-15391	Sequence 15391, A
172	29	65.9	212	4	US-10-424-599-249987	Sequence 249987,	245	29	65.9	688	4	US-10-369-493-15759	Sequence 15759, A
173	29	65.9	216	5	US-10-732-923-8711	Sequence 2711, App	246	29	65.9	688	4	US-10-369-493-16145	Sequence 16145, A

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252	29	65.9	707	4	US-10-282-122A-61545	Sequence 61545, A	325	28	63.6	172	4	US-10-180-375-108	Sequence 108, App
253	29	65.9	707	4	US-10-400-083-19	Sequence 19, Appl	326	28	63.6	172	4	US-10-183-687-114	Sequence 124, App
254	29	65.9	707	5	US-10-491-545A-20	Sequence 20, Appl	327	28	63.6	178	4	US-10-424-599-242803	Sequence 242803, A
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258	29	65.9	730	4	US-10-437-963-178936	Sequence 178936, A	331	28	63.6	190	4	US-10-767-701-32300	Sequence 32300, A
259	29	65.9	760	5	US-10-733-923-14000	Sequence 14000, A	332	28	63.6	191	4	US-10-473-738-4	Sequence 4, Appl
260	29	65.9	761	4	US-10-369-493-768	Sequence 768, App	333	28	63.6	191	3	US-09-794-257-14	Sequence 14, Appl
261	29	65.9	797	4	US-10-437-963-130983	Sequence 130983, A	334	28	63.6	191	4	US-10-051-986-5	Sequence 5, Appl
262	29	65.9	800	4	US-10-282-122A-44132	Sequence 44132, A	335	28	63.6	191	4	US-10-258-107-1	Sequence 1, Appl
263	29	65.9	800	5	US-10-857-625-649	Sequence 649, App	336	28	63.6	191	4	US-10-400-991-69	Sequence 69, Appl
264	29	65.9	831	4	US-10-369-493-3162	Sequence 3162, Ap	337	28	63.6	192	4	US-10-087-1902-1719	Sequence 1719, Ap
265	29	65.9	849	5	US-10-032-585-7026	Sequence 7026, Ap	338	28	63.6	197	4	US-10-374-780A-1109	Sequence 1109, Ap
266	29	65.9	849	5	US-10-882-104-119	Sequence 119, App	339	28	63.6	198	4	US-10-667-723-10	Sequence 98, Appl
267	29	65.9	850	4	US-10-437-963-191992	Sequence 191992, A	340	28	63.6	200	4	US-10-180-375-98	Sequence 100, App
268	29	65.9	887	4	US-10-425-114-70460	Sequence 70460, A	341	28	63.6	200	4	US-10-180-375-100	Sequence 114, App
269	29	65.9	956	4	US-10-437-963-174370	Sequence 174370, A	342	28	63.6	200	4	US-10-183-687-114	Sequence 116, App
270	29	65.9	964	4	US-10-425-115-209193	Sequence 209193, A	343	28	63.6	200	4	US-10-183-687-116	Sequence 98, Appl
271	29	65.9	984	4	US-10-424-599-167615	Sequence 167615, A	344	28	63.6	200	4	US-10-183-687-114	Sequence 116, App
272	29	65.9	993	5	US-10-732-923-22538	Sequence 22538, A	345	28	63.6	200	5	US-10-425-115-286419	Sequence 286419, A
273	29	65.9	1065	4	US-10-320-797-3335	Sequence 3335, Ap	346	28	63.6	201	3	US-10-739-930-7229	Sequence 7229, Ap
274	29	65.9	1101	4	US-10-437-963-109713	Sequence 109713, A	347	28	63.6	203	4	US-09-833-245-1606	Sequence 1606, Ap
275	29	65.9	1101	4	US-10-732-923-22536	Sequence 22536, A	348	28	63.6	203	4	US-10-180-375-128	Sequence 128, App
276	29	65.9	1225	5	US-10-732-923-22537	Sequence 22537, A	349	28	63.6	203	4	US-10-183-687-144	Sequence 144, App
277	29	65.9	1225	6	US-11-097-143-13314	Sequence 13314, A	350	28	63.6	205	4	US-10-180-375-189	Sequence 189, App
278	29	65.9	1285	4	US-10-044-693-314	Sequence 314, App	351	28	63.6	205	4	US-10-183-687-181	Sequence 381, App
279	29	65.9	1285	4	US-10-044-539-314	Sequence 314, App	352	28	63.6	205	4	US-10-374-780A-1108	Sequence 1108, Ap
280	29	65.9	1285	4	US-10-325-810-600	Sequence 600, App	353	28	63.6	205	4	US-10-437-963-145061	Sequence 145061, A
281	29	65.9	1285	5	US-10-877-124-600	Sequence 600, App	354	28	63.6	209	4	US-10-282-122A-71360	Sequence 71360, A
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284	29	65.9	1290	5	US-10-617-320-4399	Sequence 4399, Ap	357	28	63.6	213	4	US-10-282-122A-5446	Sequence 5446, A
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287	29	65.9	1407	4	US-10-437-963-117544	Sequence 117544, A	360	28	63.6	223	3	US-09-817-199A-2	Sequence 2, Appl
288	29	65.9	1447	4	US-10-437-963-114974	Sequence 114974, A	361	28	63.6	223	4	US-10-108-260A-4746	Sequence 4746, Ap
289	29	65.9	1682	4	US-10-282-122A-64702	Sequence 64702, A	362	28	63.6	223	4	US-10-108-260A-4746	Sequence 4746, Ap
290	29	65.9	1787	4	US-10-282-122A-62625	Sequence 62625, A	363	28	63.6	223	4	US-10-236-417-126	Sequence 126, App
291	29	65.9	2044	5	US-10-732-923-8339	Sequence 8339, Ap	364	28	63.6	223	6	US-11-043-964-4	Sequence 89, Appl
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294	29	65.9	2470	5	US-10-732-923-13999	Sequence 13999, A	367	28	63.6	224	4	US-09-764-868-684	Sequence 684, App
295	29	65.9	2470	6	US-11-097-143-10533	Sequence 10533, A	368	28	63.6	229	4	US-10-087-192-1722	Sequence 1722, Ap
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298	28	63.6	58	5	US-10-644-765-323	Sequence 323, App	371	28	63.6	238	4	US-10-262-839-72	Sequence 72, Appl
299	28	63.6	68	4	US-10-424-599-180030	Sequence 180030, A	372	28	63.6	240	4	US-10-262-839-72	Sequence 701, App
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573	28	63.6	247	4	US-10-173-708-228	Sequence 228, App	646	28	63.6	247	4	US-10-199-669-228	Sequence 228, App
574	28	63.6	247	4	US-10-176-479-228	Sequence 228, App	647	28	63.6	247	4	US-10-201-534-228	Sequence 228, App
575	28	63.6	247	4	US-10-176-748-228	Sequence 228, App	648	28	63.6	247	4	US-10-201-770-228	Sequence 228, App
576	28	63.6	247	4	US-10-176-916-228	Sequence 228, App	649	28	63.6	247	4	US-10-201-855-228	Sequence 228, App
577	28	63.6	247	4	US-10-179-507-228	Sequence 228, App	650	28	63.6	247	4	US-10-201-856-228	Sequence 228, App
578	28	63.6	247	4	US-10-179-515-228	Sequence 228, App	651	28	63.6	247	4	US-10-202-469-228	Sequence 228, App
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582	28	63.6	247	4	US-10-180-545-228	Sequence 228, App	655	28	63.6	247	4	US-10-202-937-228	Sequence 228, App
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589	28	63.6	247	4	US-10-184-625-228	Sequence 228, App	662	28	63.6	247	4	US-10-205-800-228	Sequence 228, App
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689	28	63.6	247	4	US-10-202-472-228	Sequence 228, App	762	28	63.6	247	4	US-10-196-752-228	Sequence 228, App
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693	28	63.6	247	4	US-10-205-902-228	Sequence 228, App	766	28	63.6	247	4	US-10-197-693-228	Sequence 228, App
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695	28	63.6	247	4	US-10-176-484-228	Sequence 228, App	768	28	63.6	247	4	US-10-197-698-228	Sequence 228, App
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698	28	63.6	247	4	US-10-198-770-228	Sequence 228, App	771	28	63.6	247	4	US-10-198-757-228	Sequence 228, App
699	28	63.6	247	4	US-10-199-308-228	Sequence 228, App	772	28	63.6	247	4	US-10-198-761-228	Sequence 228, App
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757	28	63.6	247	4	US-10-194-459-228	Sequence 228, App	830	28	63.6	247	4	US-10-208-030-228	Sequence 228, App



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847	28	63.6	247	4	US-10-205-891-228	Sequence 228, App	920	28	63.6	247	4	US-10-176-489-228	Sequence 228, App
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862	28	63.6	247	4	US-10-176-979-228	Sequence 228, App	935	28	63.6	247	4	US-10-176-486-228	Sequence 228, App
863	28	63.6	247	4	US-10-187-593-228	Sequence 228, App	936	28	63.6	247	4	US-10-176-486-228	Sequence 228, App
864	28	63.6	247	4	US-10-197-691-228	Sequence 228, App	937	28	63.6	247	4	US-10-176-752-228	Sequence 228, App
865	28	63.6	247	4	US-10-198-771-228	Sequence 228, App	938	28	63.6	247	4	US-10-176-981-228	Sequence 228, App
866	28	63.6	247	4	US-10-174-575A-228	Sequence 228, App	939	28	63.6	247	4	US-10-176-983-228	Sequence 228, App
867	28	63.6	247	4	US-10-179-520-228	Sequence 228, App	940	28	63.6	247	4	US-10-176-988-228	Sequence 228, App
868	28	63.6	247	4	US-10-201-325-228	Sequence 228, App	941	28	63.6	247	4	US-10-179-517-228	Sequence 228, App
869	28	63.6	247	4	US-10-202-941-228	Sequence 228, App	942	28	63.6	247	4	US-10-179-521-228	Sequence 228, App
870	28	63.6	247	4	US-10-205-910-228	Sequence 228, App	943	28	63.6	247	4	US-10-202-475-228	Sequence 228, App
871	28	63.6	247	4	US-10-179-525-228	Sequence 228, App	944	28	63.6	247	4	US-10-195-887-228	Sequence 228, App
872	28	63.6	247	4	US-10-173-701-228	Sequence 228, App	945	28	63.6	247	4	US-10-195-893-228	Sequence 228, App
873	28	63.6	247	4	US-10-179-511-228	Sequence 228, App	946	28	63.6	247	4	US-10-179-509-228	Sequence 228, App
874	28	63.6	247	4	US-10-179-518-228	Sequence 228, App	947	28	63.6	247	4	US-10-194-466-228	Sequence 228, App
875	28	63.6	247	4	US-10-183-018-228	Sequence 228, App	948	28	63.6	247	4	US-10-195-900-228	Sequence 228, App
876	28	63.6	247	4	US-10-184-624-228	Sequence 228, App	949	28	63.6	247	4	US-10-198-759-228	Sequence 228, App
877	28	63.6	247	4	US-10-184-657-228	Sequence 228, App	950	28	63.6	247	4	US-10-205-506-228	Sequence 228, App
878	28	63.6	247	4	US-10-197-701-228	Sequence 228, App	951	28	63.6	247	4	US-10-174-570-228	Sequence 228, App
879	28	63.6	247	4	US-10-197-706-228	Sequence 228, App	952	28	63.6	247	4	US-10-174-570-228	Sequence 228, App
880	28	63.6	247	4	US-10-201-857-228	Sequence 228, App	953	28	63.6	247	4	US-10-183-005-228	Sequence 228, App
881	28	63.6	247	4	US-10-202-413-228	Sequence 228, App	954	28	63.6	247	4	US-10-179-523-228	Sequence 228, App
882	28	63.6	247	4	US-10-202-938-228	Sequence 228, App	955	28	63.6	247	4	US-10-199-463-228	Sequence 228, App
883	28	63.6	247	4	US-10-202-940-228	Sequence 228, App	956	28	63.6	247	4	US-10-202-471-228	Sequence 228, App
884	28	63.6	247	4	US-10-205-508-228	Sequence 228, App	957	28	63.6	247	4	US-10-207-915-228	Sequence 228, App
885	28	63.6	247	4	US-10-205-905-228	Sequence 228, App	958	28	63.6	247	4	US-10-207-915-228	Sequence 228, App
886	28	63.6	247	4	US-10-206-918-228	Sequence 228, App	959	28	63.6	247	4	US-10-197-709-228	Sequence 228, App
887	28	63.6	247	4	US-10-208-025-228	Sequence 228, App	960	28	63.6	247	4	US-10-206-915-228	Sequence 228, App
888	28	63.6	247	4	US-10-198-760-228	Sequence 228, App	961	28	63.6	247	4	US-10-199-670-228	Sequence 228, App
889	28	63.6	247	4	US-10-201-772-228	Sequence 228, App	962	28	63.6	247	4	US-10-201-858-228	Sequence 228, App
890	28	63.6	247	4	US-10-184-613-228	Sequence 228, App	963	28	63.6	247	4	US-10-205-890-228	Sequence 228, App
891	28	63.6	247	4	US-10-187-739-228	Sequence 228, App	964	28	63.6	247	4	US-10-208-024-228	Sequence 228, App
892	28	63.6	247	4	US-10-206-907-228	Sequence 228, App	965	28	63.6	247	4	US-10-201-853-228	Sequence 228, App
893	28	63.6	247	4	US-10-183-009-228	Sequence 228, App	966	28	63.6	247	4	US-10-206-916-228	Sequence 228, App
894	28	63.6	247	4	US-10-187-755-228	Sequence 228, App	967	28	63.6	247	5	US-10-626-686-12	Sequence 12, Appl
895	28	63.6	247	4	US-10-199-672-228	Sequence 228, App	968	28	63.6	247	5	US-10-702-578-10	Sequence 10, Appl
896	28	63.6	247	4	US-10-187-749-228	Sequence 228, App	969	28	63.6	247	5	US-10-702-578-19	Sequence 19, Appl
897	28	63.6	247	4	US-10-194-457-228	Sequence 228, App	970	28	63.6	247	5	US-10-183-001-228	Sequence 228, App
898	28	63.6	247	4	US-10-184-642-228	Sequence 228, App	971	28	63.6	247	5	US-10-950-374-303	Sequence 303, Appl
899	28	63.6	247	4	US-10-196-747-228	Sequence 228, App	972	28	63.6	247	5	US-10-175-749-228	Sequence 228, App
900	28	63.6	247	4	US-10-173-689-228	Sequence 228, App	973	28	63.6	247	5	US-10-175-749-228	Sequence 228, App
901	28	63.6	247	4	US-10-173-690-228	Sequence 228, App	974	28	63.6	247	5	US-10-180-554-228	Sequence 228, App
902	28	63.6	247	4	US-10-173-691-228	Sequence 228, App	975	28	63.6	249	3	US-09-925-301-1430	Sequence 1430, Ap
903	28	63.6	247	4	US-10-173-694-228	Sequence 228, App	976	28	63.6	249	5	US-10-472-928-4798	Sequence 4798, Ap

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977 28 63.6 251 4 US-10-205-331-84 Sequence 84, Appli
978 28 63.6 251 5 US-10-702-578-8 Sequence 8, Appli
979 28 63.6 252 4 US-10-423-156-7 Sequence 7, Appli
980 28 63.6 252 4 US-10-423-156-8 Sequence 8, Appli
981 28 63.6 254 5 US-10-702-578-4 Sequence 4, Appli
982 28 63.6 256 4 US-10-473-738-2 Sequence 2, Appli
983 28 63.6 256 4 US-10-425-115-288550 Sequence 288550,
984 28 63.6 258 4 US-10-424-599-259680 Sequence 259680,
985 28 63.6 265 4 US-10-262-839-74 Sequence 74, Appli
986 28 63.6 265 5 US-10-789-378-46 Sequence 46, Appli
987 28 63.6 265 5 US-10-702-578-12 Sequence 12, Appli
988 28 63.6 265 5 US-10-702-578-21 Sequence 21, Appli
989 28 63.6 266 5 US-10-702-578-6 Sequence 6, Appli
990 28 63.6 272 4 US-10-781-014-720 Sequence 720, App
991 28 63.6 283 4 US-10-335-977-6088 Sequence 6088, Ap
992 28 63.6 291 5 US-10-450-763-59675 Sequence 59675, A
993 28 63.6 292 4 US-10-394-322A-10 Sequence 10, Appli
994 28 63.6 292 4 US-10-755-889-670 Sequence 670, App
995 28 63.6 292 5 US-10-733-923-1434 Sequence 1434, Ap
996 28 63.6 293 5 US-10-450-763-36327 Sequence 36327, A
997 28 63.6 294 6 US-11-097-143-27861 Sequence 27861, A
998 28 63.6 301 4 US-10-369-493-6458 Sequence 6458, Ap
999 28 63.6 301 4 US-10-437-963-145060 Sequence 145060,
1000 28 63.6 301 4 US-10-425-115-261825 Sequence 261825,
```

## ALIGNMENTS

```
RESULT 1
US-10-751-845-133
; Sequence 133, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 133
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-133

Query Match          100.0%; Score 44; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 ELTEVEFEFA 9
Db      1 ELTEVEFEFA 9
```

```
RESULT 2
US-10-751-845-152
; Sequence 152, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
```

```
FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 152
; LENGTH: 42
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-152

Query Match          100.0%; Score 44; DB 5; Length 42;
Best Local Similarity 100.0%; Pred. No. 0.22;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 ELTEVEFEFA 9
Db      32 ELTEVEFEFA 40
```

```
RESULT 3
US-10-751-845-159
; Sequence 159, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 159
; LENGTH: 119
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-159

Query Match          100.0%; Score 44; DB 5; Length 119;
Best Local Similarity 100.0%; Pred. No. 0.65;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 ELTEVEFEFA 9
Db      32 ELTEVEFEFA 40
```

```
RESULT 4
US-10-800-023-27
; Sequence 27, Application US/10800023
; Publication No. US20040258688A1
; GENERAL INFORMATION:
; APPLICANT: Steinman, Ralph
; APPLICANT: Nussenzweig, Michel
; APPLICANT: Hawiger, Daniel
; APPLICANT: Bonifaz, Laura
; TITLE OF INVENTION: Enhanced Antigen Delivery and Modulation
```

TITLE OF INVENTION: of the Immune Response Therefrom  
FILE REFERENCE: 600-1-081CONCIP1  
CURRENT APPLICATION NUMBER: US/10/800,023  
CURRENT FILING DATE: 2004-03-14  
PRIOR APPLICATION NUMBER: 09/925,264  
PRIOR FILING DATE: 2001-08-09  
PRIOR APPLICATION NUMBER: 09/586,704  
PRIOR FILING DATE: 2000-06-05  
PRIOR APPLICATION NUMBER: PCT/US96/01383  
PRIOR FILING DATE: 1996-01-31  
PRIOR APPLICATION NUMBER: 08/381,528  
PRIOR FILING DATE: 1995-01-31  
NUMBER OF SEQ ID NOS: 37  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 27  
LENGTH: 158  
TYPE: PRT  
ORGANISM: human papilloma virus E6 protein  
US-10-800-023-27

Query Match 100.0%; Score 44; DB 5; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.87; Mismatches 0; Indels 0; Gaps 0;  
Matches 9; Conservative 0;

QY 1 ELTEVEFEFA 9  
|||||  
DB 40 ELTEVEFEFA 48

RESULT 5  
US-11-021-949-28  
Sequence 28, Application US/11021949  
Publication No. US20050142541A1  
GENERAL INFORMATION:  
APPLICANT: LU, PETER  
APPLICANT: GARMAN, JONATHAN DAVID  
APPLICANT: BELMARES, MICHAEL P.  
APPLICANT: DIAZ-SAMIENTO, CHAMORRO SOMOZA  
APPLICANT: SCHWEIZER, JOHANNES  
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV  
TITLE OF INVENTION: AND METHODS OF THEIR USE  
FILE REFERENCE: VITA-012  
CURRENT APPLICATION NUMBER: US/11/021,949  
CURRENT FILING DATE: 2004-12-23  
PRIOR APPLICATION NUMBER: 60/532,373  
PRIOR FILING DATE: 2003-12-23  
NUMBER OF SEQ ID NOS: 361  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 28  
LENGTH: 158  
TYPE: PRT  
ORGANISM: human papilloma virus (HPV)  
US-11-021-949-28

Query Match 100.0%; Score 44; DB 6; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.87; Mismatches 0; Indels 0; Gaps 0;  
Matches 9; Conservative 0;

QY 1 ELTEVEFEFA 9  
|||||  
DB 40 ELTEVEFEFA 48

RESULT 6  
US-10-472-724-6  
Sequence 6, Application US/10472724  
Publication No. US20040171806A1  
GENERAL INFORMATION:  
APPLICANT: Cid-Argregh, Angel  
APPLICANT: Zur Hausen, Harald  
TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination  
FILE REFERENCE: 4121-154  
CURRENT APPLICATION NUMBER: US/10/472,724

CURRENT FILING DATE: 2003-09-17  
PRIOR APPLICATION NUMBER: PCT/EP02/03271  
PRIOR FILING DATE: 2002-03-22  
PRIOR APPLICATION NUMBER: EP 01107271.7  
PRIOR FILING DATE: 2001-03-23  
NUMBER OF SEQ ID NOS: 27  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO 6  
LENGTH: 172  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Synthetic Construct  
US-10-472-724-6

Query Match 100.0%; Score 44; DB 4; Length 172;  
Best Local Similarity 100.0%; Pred. No. 0.95; Mismatches 0; Indels 0; Gaps 0;  
Matches 9; Conservative 0;

QY 1 ELTEVEFEFA 9  
|||||  
DB 46 ELTEVEFEFA 54

RESULT 7  
US-10-751-845-157  
Sequence 157, Application US/10751845  
Publication No. US20050100928A1  
GENERAL INFORMATION:  
APPLICANT: Hedley, Mary Lynne  
APPLICANT: Urban, Robert G.  
APPLICANT: Chicz, Roman M.  
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES  
FILE REFERENCE: 08191-013001  
CURRENT APPLICATION NUMBER: US/10/751,845  
CURRENT FILING DATE: 2004-01-05  
PRIOR APPLICATION NUMBER: US/09/664,225  
PRIOR FILING DATE: 2000-08-18  
PRIOR APPLICATION NUMBER: US 60/169,846  
PRIOR FILING DATE: 1999-12-09  
PRIOR APPLICATION NUMBER: US 60/154,665  
PRIOR FILING DATE: 1999-09-16  
NUMBER OF SEQ ID NOS: 163  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 157  
LENGTH: 236  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Artificial fusion sequence  
US-10-751-845-157

Query Match 100.0%; Score 44; DB 5; Length 236;  
Best Local Similarity 100.0%; Pred. No. 1.3; Mismatches 0; Indels 0; Gaps 0;  
Matches 9; Conservative 0;

QY 1 ELTEVEFEFA 9  
|||||  
DB 149 ELTEVEFEFA 157

RESULT 8  
US-10-751-845-158  
Sequence 158, Application US/10751845  
Publication No. US20050100928A1  
GENERAL INFORMATION:  
APPLICANT: Hedley, Mary Lynne  
APPLICANT: Urban, Robert G.  
APPLICANT: Chicz, Roman M.  
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES  
FILE REFERENCE: 08191-013001  
CURRENT APPLICATION NUMBER: US/10/751,845  
CURRENT FILING DATE: 2004-01-05

```
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 158
; LENGTH: 237
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-158
```

```
Query Match          100.0%; Score 44; DB 5; Length 237;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 ELTEVEFEFA 9
        |||||
Db       150 ELTEVEFEFA 158
```

```
RESULT 9
US-10-751-845-160
; Sequence 160, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chiciz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/10/751,845
; PRIOR FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 160
; LENGTH: 261
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-160
```

```
Query Match          100.0%; Score 44; DB 5; Length 261;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 ELTEVEFEFA 9
        |||||
Db       174 ELTEVEFEFA 182
```

```
RESULT 10
US-10-000-903-21
; Sequence 21, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Gabazon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
```

```
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 97117953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 21
; LENGTH: 278
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-21
```

```
Query Match          100.0%; Score 44; DB 4; Length 278;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 ELTEVEFEFA 9
        |||||
Db       151 ELTEVEFEFA 159
```

```
RESULT 11
US-10-899-771-21
; Sequence 21, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjunctanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 218
; LENGTH: 278
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
; OTHER INFORMATION: influenzae B and E6 from Human papilloma virus type
; OTHER INFORMATION: 18)
US-10-899-771-21
```

```
Query Match          100.0%; Score 44; DB 5; Length 278;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 ELTEVEFEFA 9
        |||||
Db       151 ELTEVEFEFA 159
```

```
RESULT 12
US-10-000-903-23
; Sequence 23, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Gabazon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
```

FILE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/10/000,903  
CURRENT FILING DATE: 2001-10-01  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 23  
LENGTH: 383  
TYPE: PRT  
ORGANISM: Homo sapien  
US-10-000-903-23

Query Match 100.0%; Score 44; DB 4; Length 383;  
Best Local Similarity 100.0%; Pred. No. 2.2; Indels 0; Gaps 0;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFEFA 9  
DB 151 ELTEVEFEFA 159

RESULT 13  
US-10-899-771-23

Sequence 23, Application US/10899771  
Publication No. US20050031638A1  
GENERAL INFORMATION:  
APPLICANT: Dalemans, Wilfried L.J.  
APPLICANT: Gerard, Catherine Marie Ghislaine  
TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins  
TITLE OF INVENTION: and Fusion Proteins Adjuncted with a Cpg Oligonucleotide  
FILE REFERENCE: B45124  
CURRENT APPLICATION NUMBER: US/10/899,771  
CURRENT FILING DATE: 2004-07-27  
PRIOR APPLICATION NUMBER: US/09/581,976  
PRIOR FILING DATE: 2000-06-20  
PRIOR APPLICATION NUMBER: PCT/EP98/08563  
PRIOR FILING DATE: 1998-12-18  
PRIOR APPLICATION NUMBER: GB 9727262.9  
PRIOR FILING DATE: 1997-12-24  
NUMBER OF SEQ ID NOS: 28  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 23  
LENGTH: 383  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Chimaeric protein (protein D from Haemophilus  
OTHER INFORMATION: Influenzae B and E6E7 fusion from Human papilloma  
OTHER INFORMATION: virus type 18)  
US-10-899-771-23

Query Match 100.0%; Score 44; DB 5; Length 383;  
Best Local Similarity 100.0%; Pred. No. 2.2; Indels 0; Gaps 0;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFEFA 9  
DB 151 ELTEVEFEFA 159

RESULT 14  
US-10-751-845-136

Sequence 136, Application US/10751845  
Publication No. US20050100928A1  
GENERAL INFORMATION:  
APPLICANT: Hedley, Mary Lynne  
APPLICANT: Urban, Robert G.  
APPLICANT: Chiciz, Roman M.  
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES

FILE REFERENCE: 08191-013001  
CURRENT APPLICATION NUMBER: US/10/751,845  
CURRENT FILING DATE: 2004-01-05  
PRIOR APPLICATION NUMBER: US/09/664,225  
PRIOR FILING DATE: 2000-08-18  
PRIOR APPLICATION NUMBER: US 60/169,846  
PRIOR FILING DATE: 1999-12-09  
PRIOR APPLICATION NUMBER: US 60/154,665  
PRIOR FILING DATE: 1999-09-16  
NUMBER OF SEQ ID NOS: 163  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 136  
LENGTH: 10  
TYPE: PRT  
ORGANISM: Human Papilloma virus  
US-10-751-845-136

Query Match 90.9%; Score 40; DB 5; Length 10;  
Best Local Similarity 100.0%; Pred. No. 0.29; Indels 0; Gaps 0;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFEF 8  
DB 3 ELTEVEFEF 10

RESULT 15  
US-10-751-845-127

Sequence 127, Application US/10751845  
Publication No. US20050100928A1  
GENERAL INFORMATION:  
APPLICANT: Hedley, Mary Lynne  
APPLICANT: Urban, Robert G.  
APPLICANT: Chiciz, Roman M.  
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES  
FILE REFERENCE: 08191-013001  
CURRENT APPLICATION NUMBER: US/10/751,845  
CURRENT FILING DATE: 2004-01-05  
PRIOR APPLICATION NUMBER: US/09/664,225  
PRIOR FILING DATE: 2000-08-18  
PRIOR APPLICATION NUMBER: US 60/169,846  
PRIOR FILING DATE: 1999-12-09  
PRIOR APPLICATION NUMBER: US 60/154,665  
PRIOR FILING DATE: 1999-09-16  
NUMBER OF SEQ ID NOS: 163  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 127  
LENGTH: 10  
TYPE: PRT  
ORGANISM: Human Papilloma virus  
US-10-751-845-127

Query Match 88.6%; Score 39; DB 5; Length 10;  
Best Local Similarity 100.0%; Pred. No. 0.46; Indels 0; Gaps 0;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 LTEVEFEFA 9  
DB 1 LTEVEFEFA 8

RESULT 16  
US-10-321-204-36

Sequence 36, Application US/10321204  
Publication No. US20030186871A1  
GENERAL INFORMATION:  
APPLICANT: Waters, Steve  
APPLICANT: Moodie, Shonna  
APPLICANT: Lavan, Brian  
APPLICANT: Gustafson, Thomas A.  
APPLICANT: Metabolix, Inc.  
TITLE OF INVENTION: Compositions and Methods for Diagnosing and Treating  
TITLE OF INVENTION: Diabetes, Insulin Resistance and Dyslipidemia

```
FILE REFERENCE: 016325-007310US
CURRENT APPLICATION NUMBER: US/10/321,204
CURRENT FILING DATE: 2002-12-16
PRIOR APPLICATION NUMBER: US 60/341,451
PRIOR FILING DATE: 2001-12-17
NUMBER OF SEQ ID NOS: 66
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 36
LENGTH: 322
TYPE: PRT
ORGANISM: Rattus norvegicus
US-10-321-204-36

Query Match      84.1%  Score 37; DB 4; Length 322;
Best Local Similarity 87.5%; Pred. No. 44;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ELTEVEFEF 8
Db      279 ELTQVFEF 286

RESULT 17
US-10-282-122A-50681
Sequence 50681, Application US/10282122A
Publication No. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Karl
APPLICANT: Zykkind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO 50681
LENGTH: 244
TYPE: PRT
ORGANISM: Burkholderia mallei
US-10-282-122A-50681

Query Match      79.5%  Score 35; DB 4; Length 244;
```

```
Best Local Similarity 87.5%; Pred. No. 82;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 ELTEVEFEF 8
Db      139 ELTEVEFEF 146

RESULT 18
US-09-815-242-13832
Sequence 13832, Application US/09815242
Patent No. US20020061569A1
GENERAL INFORMATION:
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Karl L.
APPLICANT: Zykkind, Judith W.
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John D.
APPLICANT: Carr, Grant J.
APPLICANT: Yamamoto, Robert T.
APPLICANT: Xu, H. Howard
TITLE OF INVENTION: Identification of Essential Genes in
FILE REFERENCE: ELITRA.011A
CURRENT APPLICATION NUMBER: US/09/815,242
CURRENT FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
NUMBER OF SEQ ID NOS: 14110
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 13832
LENGTH: 336
TYPE: PRT
ORGANISM: Salmonella typhi
US-09-815-242-13832

Query Match      77.3%  Score 34; DB 3; Length 336;
Best Local Similarity 66.7%; Pred. No. 1,8e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      1 ELTEVEFEF 9
Db      289 ELTEAFQFA 297

RESULT 19
US-10-282-122A-74880
Sequence 74880, Application US/10282122A
Publication No. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Karl
APPLICANT: Zykkind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
```

```
/ APPLICANT: Xu, H.
/ TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
/ FILE REFERENCE: ELITRA.034A
/ CURRENT APPLICATION NUMBER: US/10/282,122A
/ CURRENT FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: 60/191,078
/ PRIOR FILING DATE: 2000-03-21
/ PRIOR APPLICATION NUMBER: 60/206,848
/ PRIOR FILING DATE: 2000-05-23
/ PRIOR APPLICATION NUMBER: 60/207,727
/ PRIOR FILING DATE: 2000-05-26
/ PRIOR APPLICATION NUMBER: 60/230,335
/ PRIOR FILING DATE: 2000-09-06
/ PRIOR APPLICATION NUMBER: 60/230,347
/ PRIOR FILING DATE: 2000-09-09
/ PRIOR APPLICATION NUMBER: 60/242,578
/ PRIOR FILING DATE: 2000-10-23
/ PRIOR APPLICATION NUMBER: 60/253,625
/ PRIOR FILING DATE: 2000-11-27
/ PRIOR APPLICATION NUMBER: 60/257,931
/ PRIOR FILING DATE: 2000-12-22
/ PRIOR APPLICATION NUMBER: 60/267,636
/ PRIOR FILING DATE: 2001-02-09
/ PRIOR APPLICATION NUMBER: 60/269,308
/ PRIOR FILING DATE: 2001-02-16
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 78614
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO: 74880
/ LENGTH: 336
/ TYPE: PRT
/ ORGANISM: Salmonella typhimurium
/ US-10-282-122A-74880

Query Match      77.3%; Score 34; DB 4; Length 336;
Best Local Similarity 66.7%; Pred. No. 1.8e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy      1 ELTEVEPERA 9
Db      289 DLTEAFQFA 297
```

```
RESULT 20
US-10-282-122A-76245
/ Sequence 76245, Application US/10282122A
/ Publication No. US20040029129A1
/ GENERAL INFORMATION:
/ APPLICANT: Wang, Liangsu
/ APPLICANT: Zamudio, Carlos
/ APPLICANT: Malone, Cheryl
/ APPLICANT: Haselbeck, Robert
/ APPLICANT: Ohlsen, Kari
/ APPLICANT: Zyskind, Judith
/ APPLICANT: Wall, Daniel
/ APPLICANT: Trawick, John
/ APPLICANT: Carr, Grant
/ APPLICANT: Yamamoto, Robert
/ APPLICANT: Forsyth, R.
/ APPLICANT: Xu, H.
/ TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
/ FILE REFERENCE: ELITRA.034A
/ CURRENT APPLICATION NUMBER: US/10/282,122A
/ CURRENT FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: 60/191,078
/ PRIOR FILING DATE: 2000-03-21
/ PRIOR APPLICATION NUMBER: 60/206,848
/ PRIOR FILING DATE: 2000-05-23
/ PRIOR APPLICATION NUMBER: 60/207,727
/ PRIOR FILING DATE: 2000-05-26
/ PRIOR APPLICATION NUMBER: 60/230,335
/ PRIOR FILING DATE: 2000-09-06
/ PRIOR APPLICATION NUMBER: 60/230,347
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 78614
/ SOFTWARE: PatentIn version 3.1
```

```
/ PRIOR FILING DATE: 2000-09-09
/ PRIOR APPLICATION NUMBER: 60/242,578
/ PRIOR FILING DATE: 2000-10-23
/ PRIOR APPLICATION NUMBER: 60/253,625
/ PRIOR FILING DATE: 2000-11-27
/ PRIOR APPLICATION NUMBER: 60/257,931
/ PRIOR FILING DATE: 2000-12-22
/ PRIOR APPLICATION NUMBER: 60/267,636
/ PRIOR FILING DATE: 2001-02-09
/ PRIOR APPLICATION NUMBER: 60/269,308
/ PRIOR FILING DATE: 2001-02-16
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 78614
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO: 76245
/ LENGTH: 336
/ TYPE: PRT
/ ORGANISM: Salmonella typhi
/ US-10-282-122A-76245

Query Match      77.3%; Score 34; DB 4; Length 336;
Best Local Similarity 66.7%; Pred. No. 1.8e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy      1 ELTEVEPERA 9
Db      289 DLTEAFQFA 297
```

```
RESULT 21
US-10-282-122A-73043
/ Sequence 73043, Application US/10282122A
/ Publication No. US20040029129A1
/ GENERAL INFORMATION:
/ APPLICANT: Wang, Liangsu
/ APPLICANT: Zamudio, Carlos
/ APPLICANT: Malone, Cheryl
/ APPLICANT: Haselbeck, Robert
/ APPLICANT: Ohlsen, Kari
/ APPLICANT: Zyskind, Judith
/ APPLICANT: Wall, Daniel
/ APPLICANT: Trawick, John
/ APPLICANT: Carr, Grant
/ APPLICANT: Yamamoto, Robert
/ APPLICANT: Forsyth, R.
/ APPLICANT: Xu, H.
/ TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
/ FILE REFERENCE: ELITRA.034A
/ CURRENT APPLICATION NUMBER: US/10/282,122A
/ CURRENT FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: 60/191,078
/ PRIOR FILING DATE: 2000-03-21
/ PRIOR APPLICATION NUMBER: 60/206,848
/ PRIOR FILING DATE: 2000-05-23
/ PRIOR APPLICATION NUMBER: 60/207,727
/ PRIOR FILING DATE: 2000-05-26
/ PRIOR APPLICATION NUMBER: 60/230,335
/ PRIOR FILING DATE: 2000-09-06
/ PRIOR APPLICATION NUMBER: 60/230,347
/ PRIOR FILING DATE: 2000-09-09
/ PRIOR APPLICATION NUMBER: 60/242,578
/ PRIOR FILING DATE: 2000-10-23
/ PRIOR APPLICATION NUMBER: 60/253,625
/ PRIOR FILING DATE: 2000-11-27
/ PRIOR APPLICATION NUMBER: 60/257,931
/ PRIOR FILING DATE: 2000-12-22
/ PRIOR APPLICATION NUMBER: 60/267,636
/ PRIOR FILING DATE: 2001-02-09
/ PRIOR APPLICATION NUMBER: 60/269,308
/ PRIOR FILING DATE: 2001-02-16
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 78614
/ SOFTWARE: PatentIn version 3.1
```

```
SEQ ID NO 73043
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Salmonella paratyphi A
US-10-282-122A-73043
```

```
Query Match      77.3%; Score 34; DB 4; Length 344;
Best Local Similarity 66.7%; Pred. No. 1.9e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 ELTEVFEEFA 9
        :|||:|
Db      297 DLTEAFQFA 305
```

```
RESULT 22
US-09-815-242-10162
; Sequence 10162, Application US/09815242
; Patent NO. US20020061569A1
; GENERAL INFORMATION:
```

```
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari L.
APPLICANT: Zyekind, Judith W.
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John D.
APPLICANT: Carr, Grant J.
APPLICANT: Yamamoto, Robert T.
APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; FILE REFERENCE: ELITRA.011A
; CURRENT APPLICATION NUMBER: US/09/815,242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10162
; LENGTH: 346
; TYPE: PRT
; ORGANISM: Escherichia coli
US-09-815-242-10162
```

```
Query Match      77.3%; Score 34; DB 3; Length 346;
Best Local Similarity 66.7%; Pred. No. 1.9e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 ELTEVFEEFA 9
        :|||:|
Db      299 DLTEAFQFA 307
```

```
RESULT 23
US-10-369-493-833
```

```
; Sequence 833, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
```

```
APPLICANT: Cao, Yongwei
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Goldman, Barry S.
```

```
APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 833
; LENGTH: 346
; TYPE: PRT
; ORGANISM: Escherichia coli
US-10-369-493-833
```

```
Query Match      77.3%; Score 34; DB 4; Length 346;
Best Local Similarity 66.7%; Pred. No. 1.9e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 ELTEVFEEFA 9
        :|||:|
Db      299 DLTEAFQFA 307
```

```
RESULT 24
US-10-282-122A-56548
; Sequence 56548, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
```

```
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari
APPLICANT: Zyekind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
```

```
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
```

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; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 56548
; LENGTH: 346
; TYPE: PRT
; ORGANISM: Escherichia coli
US-10-282-122A-56548
```



Query Match 77.3%; Score 34; DB 4; Length 346;  
Best Local Similarity 66.7%; Pred. No. 1.9e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELTEVEFEPA 9  
:||||:|  
Db 299 DLTEAFQFA 307

RESULT 25  
US-10-767-701-52361  
; Sequence 52361, Application US/10767701  
; Publication No. US20040172684A1  
; GENERAL INFORMATION:  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with  
; FILE REFERENCE: 38-21(53535)B  
; CURRENT APPLICATION NUMBER: US/10/767,701  
; CURRENT FILING DATE: 2004-01-29  
; NUMBER OF SEQ ID NOS: 63128  
; SEQ ID NO 52361  
; LENGTH: 139  
; TYPE: PRT  
; ORGANISM: Sorghum bicolor  
; FEATURE:  
; OTHER INFORMATION: Clone ID: 11922658.pep  
US-10-767-701-52361

Query Match 75.0%; Score 33; DB 4; Length 139;  
Best Local Similarity 75.0%; Pred. No. 1.1e+02;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 LTEVEFEPA 9  
:||||:|  
Db 24 LTEVFOFS 31

RESULT 26  
US-10-425-115-192145  
; Sequence 192145, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with  
; FILE REFERENCE: 38-21(53222)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 192145  
; LENGTH: 180  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MRT577\_106820C.1.pep  
US-10-425-115-192145

Query Match 75.0%; Score 33; DB 4; Length 180;  
Best Local Similarity 75.0%; Pred. No. 1.5e+02;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 LTEVEFEPA 9  
:||||:|  
Db 50 LTEVFOFS 57

RESULT 27

US-10-282-122A-71438  
; Sequence 71438, Application US/10282122A  
; Publication No. US20040029129A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Liangsu  
; APPLICANT: Zamudio, Carlos  
; APPLICANT: Malone, Cheryl  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Karl  
; APPLICANT: Zykkind, Judith  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John  
; APPLICANT: Carr, Grant  
; APPLICANT: Yamamoto, Robert  
; APPLICANT: Forsyth, R.  
; APPLICANT: Xu, H.  
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
; FILE REFERENCE: ELITRA.034A  
; CURRENT APPLICATION NUMBER: US/10/282,122A  
; CURRENT FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: 60/191,078  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: 60/206,848  
; PRIOR FILING DATE: 2000-05-23/207,727  
; PRIOR APPLICATION NUMBER: 60/207,727  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: 60/230,335  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: 60/230,347  
; PRIOR FILING DATE: 2000-09-09  
; PRIOR APPLICATION NUMBER: 60/242,578  
; PRIOR FILING DATE: 2000-10-23  
; PRIOR APPLICATION NUMBER: 60/253,625  
; PRIOR FILING DATE: 2000-11-27  
; PRIOR APPLICATION NUMBER: 60/257,931  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: 60/267,636  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: 60/269,308  
; PRIOR FILING DATE: 2001-02-16  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 78614  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 71438  
; LENGTH: 299  
; TYPE: PRT  
; ORGANISM: Staphylococcus haemolyticus  
US-10-282-122A-71438

Query Match 75.0%; Score 33; DB 4; Length 299;  
Best Local Similarity 62.5%; Pred. No. 2.5e+02;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFEPA 8  
:||||:|  
Db 278 ELTEIFDY 285

RESULT 28  
US-09-893-519A-35  
; Sequence 35, Application US/09893519A  
; Publication No. US20030027243A1  
; GENERAL INFORMATION:  
; APPLICANT: ANADYS PHARMACEUTICALS, INC.  
; APPLICANT: THOMPSON, Craig  
; APPLICANT: MOORE, Jeffrey  
; APPLICANT: BURMAN, Ed T.  
; APPLICANT: BRADLEY, John  
; APPLICANT: DESILVA, Thamara  
; APPLICANT: HARRIS, Sandra  
; APPLICANT: KOMARNITSKY, Svetlana  
; APPLICANT: MENDILLO, Marc

```

; APPLICANT: MOORE, Daniel
; APPLICANT: MCCOY, Melissa
; APPLICANT: SANDERSON, Karen
; APPLICANT: HAQ, Tariq
; APPLICANT: ZHU, Shuhao
; APPLICANT: LONG, Fan
; APPLICANT: DAVIDOV, Eugene
; TITLE OF INVENTION: ANTIFUNGAL COMPOUNDS AND METHODS OF USE
; FILE REFERENCE: 0342/1G548-US2
; CURRENT APPLICATION NUMBER: US/09/893, 519A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/215,164
; PRIOR FILING DATE: 2000-06-29
; PRIOR APPLICATION NUMBER: US 60/224,457
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 35
; LENGTH: 712
; TYPE: PRT
; ORGANISM: Candida albicans
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Corresponds to SEQ ID NO: 108
US-09-893-519A-35

Query Match          75.0%; Score 33; DB 3; Length 712;
Best Local Similarity 87.5%; Pred. No. 6.3e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 LTEVFEFA 9
Db      189 LREVFERR 196

RESULT 29
US-10-032-585-7153
; Sequence 7153, Application US/10032585
; Publication No. US20030180953A1
; GENERAL INFORMATION:
; APPLICANT: Terry, Roemer D.
; APPLICANT: Bo, Jlang
; APPLICANT: Charles, Boone
; APPLICANT: Howard, Bussey
; TITLE OF INVENTION: Gene Disruption Methodologies for Drug Target Discovery
; FILE REFERENCE: 10182-005-999
; CURRENT APPLICATION NUMBER: US/10/032, 585
; CURRENT FILING DATE: 2001-12-20
; NUMBER OF SEQ ID NOS: 8000
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7153
; LENGTH: 722
; TYPE: PRT
; ORGANISM: Candida albicans
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (707)..(707)
; OTHER INFORMATION: X=any amino acid
US-10-032-585-7153

Query Match          75.0%; Score 33; DB 4; Length 722;
Best Local Similarity 87.5%; Pred. No. 6.4e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 LTEVFEFA 9
Db      189 LREVFERR 196

RESULT 30
US-10-425-115-229096
; Sequence 229096, Application US/10425115
; Publication No. US20040214272A1
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
```

```

; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovacic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425, 115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 229096
; LENGTH: 104
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(104)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_140528C.1.pep
US-10-425-115-229096

Query Match          72.7%; Score 32; DB 4; Length 104;
Best Local Similarity 55.6%; Pred. No. 1.3e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      1 ELTEVFEFA 9
Db      59 ETVTEIFNFS 67

RESULT 31
US-11-021-949-29
; Sequence 29, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021, 949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532, 373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-29

Query Match          72.7%; Score 32; DB 6; Length 158;
Best Local Similarity 66.7%; Pred. No. 2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 ELTEVFEFA 9
Db      40 ERTVEYQFA 48

RESULT 32
US-11-021-949-30
; Sequence 30, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
```

```
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
TITLE OF INVENTION: AND METHODS OF THEIR USE
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 30
LENGTH: 158
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-30
```

```
Query Match      72.7%  Score 32; DB 6; Length 158;
Best Local Similarity 85.7%  Pred. No. 2e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      3 TEVEFEFA 9
      |||:||||
Db      42 TEVEFEFA 48
```

## RESULT 33

```
US-11-021-949-361
Sequence 361, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
TITLE OF INVENTION: AND METHODS OF THEIR USE
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 361
LENGTH: 158
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-361
```

```
Query Match      72.7%  Score 32; DB 6; Length 158;
Best Local Similarity 85.7%  Pred. No. 2e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      3 TEVEFEFA 9
      |||:||||
Db      42 TEVEFEFA 48
```

## RESULT 34

```
US-11-021-949-31
Sequence 31, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
TITLE OF INVENTION: AND METHODS OF THEIR USE
```

```
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 31
LENGTH: 162
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-31
```

```
Query Match      72.7%  Score 32; DB 6; Length 162;
Best Local Similarity 85.7%  Pred. No. 2.1e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      3 TEVEFEFA 9
      |||:||||
Db      46 TEVEFEFA 52
```

## RESULT 35

```
US-10-369-493-18771
Sequence 18771, Application US/10369493
Publication No. US20030233675A1
GENERAL INFORMATION:
APPLICANT: Cao, Yongwei
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Goldman, Barry S.
APPLICANT: Chen, Xianfeng
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
FILE REFERENCE: 38-10(52052)B
CURRENT APPLICATION NUMBER: US/10/369,493
CURRENT FILING DATE: 2003-02-28
PRIOR APPLICATION NUMBER: US 60/360,039
PRIOR FILING DATE: 2002-02-21
NUMBER OF SEQ ID NOS: 47374
SEQ ID NO 18771
LENGTH: 441
TYPE: PRT
ORGANISM: Anabaena PCC7120
US-10-369-493-18771
```

```
Query Match      72.7%  Score 32; DB 4; Length 441;
Best Local Similarity 75.0%  Pred. No. 6e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 ELTEVEFEF 8
      :|:|||||
Db      191 DLAEVFEF 198
```

## RESULT 36

```
US-10-767-701-41242
Sequence 41242, Application US/10767701
Publication No. US20040172684A1
GENERAL INFORMATION:
APPLICANT: Kovacic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53535)B
CURRENT APPLICATION NUMBER: US/10/767,701
CURRENT FILING DATE: 2004-01-29
NUMBER OF SEQ ID NOS: 63128
SEQ ID NO 41242
LENGTH: 454
TYPE: PRT
ORGANISM: Sorghum bicolor
```

FEATURE:  
OTHER INFORMATION: Clone ID: SORBI-28MAY03-C37682\_1.pep  
US-10-767-701-41242

Query Match 72.7%; Score 32; DB 4; Length 454;  
Best Local Similarity 55.6%; Pred. No. 6.2e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELTEVFEEFA 9  
|:|:|:|:  
Db 270 EVTEIFNFS 278

## RESULT 37

US-10-425-114-38072  
Sequence 38072, Application US/10425114  
Publication No. US20040034888A1  
GENERAL INFORMATION:  
APPLICANT: Liu, Jindong  
APPLICANT: Zhou, Yihua  
APPLICANT: Kovalic, David K.  
APPLICANT: Screen, Steven E.  
APPLICANT: Tabaska, Jack E.  
APPLICANT: Cao, Yongwei  
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with  
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
FILE REFERENCE: 38-21(53313)B  
CURRENT APPLICATION NUMBER: US/10/425,114  
CURRENT FILING DATE: 2003-04-28  
NUMBER OF SEQ ID NOS: 73128  
SEQ ID NO 38072  
LENGTH: 478  
TYPE: PRT  
ORGANISM: Zea mays  
FEATURE:  
OTHER INFORMATION: Clone ID: LIB3066-005-A10\_FLI.pep  
US-10-425-114-38072

Query Match 72.7%; Score 32; DB 4; Length 478;  
Best Local Similarity 55.6%; Pred. No. 6.5e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELTEVFEEFA 9  
|:|:|:|:  
Db 158 EVTEIFNFS 166

## RESULT 38

US-10-193-896-11  
Sequence 11, Application US/10193896  
Publication No. US20030129710A1  
GENERAL INFORMATION:  
APPLICANT: Biotechnologisk Institut  
APPLICANT: Jorgensen, Flemming  
APPLICANT: Hansen, Ole C.  
APPLICANT: Stougaard, Peter  
APPLICANT: Berthelsen, Hans  
APPLICANT: Eriksson, Kristian  
APPLICANT: Botcher, Karen  
APPLICANT: Christensen, Hans Jorgen Singel  
TITLE OF INVENTION: A novel thermostable isomerase and use  
TITLE OF INVENTION: hereof  
FILE REFERENCE: 30077US02  
CURRENT APPLICATION NUMBER: US/10/193,896  
CURRENT FILING DATE: 2002-11-06  
PRIOR APPLICATION NUMBER: 60/305,155  
PRIOR FILING DATE: 2001-07-16  
PRIOR APPLICATION NUMBER: 09/905,108  
PRIOR FILING DATE: 2001-07-16  
NUMBER OF SEQ ID NOS: 14  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 11  
LENGTH: 496

TYPE: PRT  
ORGANISM: T.maritima  
US-10-193-896-11

Query Match 72.7%; Score 32; DB 4; Length 496;  
Best Local Similarity 66.7%; Pred. No. 6.8e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELTEVFEEFA 9  
|:|:|:|:  
Db 59 EITEIFEKA 67

## RESULT 39

US-10-369-493-2914  
Sequence 2914, Application US/10369493  
Publication No. US2003033675A1  
GENERAL INFORMATION:  
APPLICANT: Cao, Yongwei  
APPLICANT: Hinkle, Gregory J.  
APPLICANT: Slater, Steven C.  
APPLICANT: Goldman, Barry S.  
APPLICANT: Chen, Xianfeng  
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF  
TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES  
FILE REFERENCE: 38-10(52052)B  
CURRENT APPLICATION NUMBER: US/10/369,493  
CURRENT FILING DATE: 2003-02-28  
PRIOR APPLICATION NUMBER: US 60/360,039  
PRIOR FILING DATE: 2002-02-21  
NUMBER OF SEQ ID NOS: 47374  
SEQ ID NO 2914  
LENGTH: 496  
TYPE: PRT  
ORGANISM: Thermotoga maritima  
US-10-369-493-2914

Query Match 72.7%; Score 32; DB 4; Length 496;  
Best Local Similarity 66.7%; Pred. No. 6.8e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELTEVFEEFA 9  
|:|:|:|:  
Db 59 EITEIFEKA 67

## RESULT 40

US-10-425-114-64036  
Sequence 64036, Application US/10425114  
Publication No. US20040034888A1  
GENERAL INFORMATION:  
APPLICANT: Liu, Jindong  
APPLICANT: Zhou, Yihua  
APPLICANT: Kovalic, David K.  
APPLICANT: Screen, Steven E.  
APPLICANT: Tabaska, Jack E.  
APPLICANT: Cao, Yongwei  
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with  
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
FILE REFERENCE: 38-21(53313)B  
CURRENT APPLICATION NUMBER: US/10/425,114  
CURRENT FILING DATE: 2003-04-28  
NUMBER OF SEQ ID NOS: 73128  
SEQ ID NO 64036  
LENGTH: 504  
TYPE: PRT  
ORGANISM: Zea mays  
FEATURE:  
OTHER INFORMATION: Clone ID: LIB3245-489-H6\_FLI.pep  
US-10-425-114-64036

Query Match 72.7%; Score 32; DB 4; Length 504;  
Best Local Similarity 55.6%; Pred. No. 6.9e+02;

Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

OY 1 ELTEVEFEPA 9  
|:|:|:|:  
Db 161 EVTEIFNFS 169

## RESULT 41

US-10-425-114-64000  
; Sequence 64000, Application US/10425114  
; Publication No. US20040034888A1  
; GENERAL INFORMATION:  
; APPLICANT: Liu, Jingdong  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Screen, Steven E  
; APPLICANT: Tabaska, Jack E  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53313)B  
; CURRENT APPLICATION NUMBER: US/10/425,114  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 73128  
; SEQ ID NO 64000  
; LENGTH: 537  
; TYPE: PRT  
; ORGANISM: Zea mays  
; OTHER INFORMATION: Clone ID: LIB3245-236-E7\_FLI.pep  
US-10-425-114-64000

Query Match 72.7%; Score 32; DB 4; Length 537;  
Best Local Similarity 55.6%; Pred. No. 7.4e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

OY 1 ELTEVEFEPA 9  
|:|:|:|:  
Db 352 EVTEIFNFS 360

## RESULT 42

US-10-425-114-41988  
; Sequence 41988, Application US/10425114  
; Publication No. US20040034888A1  
; GENERAL INFORMATION:  
; APPLICANT: Liu, Jingdong  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Screen, Steven E  
; APPLICANT: Tabaska, Jack E  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53313)B  
; CURRENT APPLICATION NUMBER: US/10/425,114  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 73128  
; SEQ ID NO 41988  
; LENGTH: 550  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Clone ID: LIB148-032-E5\_FLI.pep  
US-10-425-114-41988

Query Match 72.7%; Score 32; DB 4; Length 550;  
Best Local Similarity 55.6%; Pred. No. 7.6e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

OY 1 ELTEVEFEPA 9  
|:|:|:|:  
Db 207 EVTEIFNFS 215

## RESULT 43

US-10-425-115-291636  
; Sequence 291636, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with  
; TITLE OF INVENTION: Plants  
; FILE REFERENCE: 38-21(53222)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 291636  
; LENGTH: 639  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)..(639)  
; OTHER INFORMATION: unsure at all Xaa locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MRT4577\_29058C.1.pep  
US-10-425-115-291636

Query Match 72.7%; Score 32; DB 4; Length 639;  
Best Local Similarity 55.6%; Pred. No. 8.9e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

OY 1 ELTEVEFEPA 9  
|:|:|:|:  
Db 320 EVTEIFNFS 328

## RESULT 44

US-10-425-115-265119  
; Sequence 265119, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with  
; TITLE OF INVENTION: Plants  
; FILE REFERENCE: 38-21(53222)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 265119  
; LENGTH: 683  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)..(683)  
; OTHER INFORMATION: unsure at all Xaa locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MRT4577\_173396C.1.pep  
US-10-425-115-265119

Query Match 72.7%; Score 32; DB 4; Length 683;  
Best Local Similarity 55.6%; Pred. No. 9.5e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

OY 1 ELTEVEFEPA 9  
|:|:|:|:  
Db 352 EVTEIFNFS 360

```
RESULT 45
US-10-425-115-265128
; Sequence 1265128, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 265128
; LENGTH: 761
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_173403C.1.pep
US-10-425-115-265128
```

```
Query Match          72.7%; Score 32; DB 4; Length 761;
Best Local Similarity 55.6%; Pred. No. 1.1e+03;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 ELTEVEFEFA 9
Db      418 EVTEIFNFS 426
```

```
RESULT 46
US-10-437-963-126524
; Sequence 126524, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 126524
; LENGTH: 787
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
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US-10-437-963-126524
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Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
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RESULT 47
US-10-437-963-126523
; Sequence 126523, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 126523
; LENGTH: 1053
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(1053)
; OTHER INFORMATION: unsure at all Xaa locations
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; OTHER INFORMATION: Clone ID: PAT_MRT4530_29060C.1.pep
US-10-437-963-126523
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Query Match          72.7%; Score 32; DB 4; Length 1053;
Best Local Similarity 55.6%; Pred. No. 1.5e+03;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
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RESULT 48
US-10-437-963-164673
; Sequence 164673, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
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Db 377 ELLEVQFS 385

# RESULT 49

US-10-128-714-3298

Sequence 3298, Application US/10128714

Publication No. US20030119013A1

GENERAL INFORMATION:

APPLICANT: Jiang, Bo

APPLICANT: Hu, Wengqi

APPLICANT: Tishkoff, Daniel

APPLICANT: Zamudio, Carlos

APPLICANT: Broshkin, Alexey M

APPLICANT: Lemieux, Sebastien M

TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and

FILE REFERENCE: 10182-018-999

CURRENT FILING DATE: 2002-04-23

PRIOR APPLICATION NUMBER: US 60/285,697

PRIOR FILING DATE: 2001-04-23

PRIOR APPLICATION NUMBER: US 60/287,066

PRIOR FILING DATE: 2001-04-27

PRIOR APPLICATION NUMBER: US 60/295,890

PRIOR FILING DATE: 2001-06-05

PRIOR APPLICATION NUMBER: US 60/303,899

PRIOR FILING DATE: 2001-07-09

PRIOR APPLICATION NUMBER: US 60/316,362

PRIOR FILING DATE: 2001-08-31

NUMBER OF SEQ ID NOS: 8603

SOFTWARE: PatentIn version 3.1

SEQ ID NO 3298

LENGTH: 1555

TYPE: PRT

ORGANISM: Aspergillus fumigatus

US-10-128-714-3298

# Query Match

Best Local Similarity 72.7%; Score 32; DB 4; Length 1555;

Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

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US-10-128-714-8298

Sequence 8298, Application US/10128714

Publication No. US20030119013A1

GENERAL INFORMATION:

APPLICANT: Jiang, Bo

APPLICANT: Hu, Wengqi

APPLICANT: Tishkoff, Daniel

APPLICANT: Zamudio, Carlos

APPLICANT: Broshkin, Alexey M

APPLICANT: Lemieux, Sebastien M

TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and

FILE REFERENCE: 10182-018-999

CURRENT FILING DATE: 2002-04-23

PRIOR APPLICATION NUMBER: US 60/285,697

PRIOR FILING DATE: 2001-04-23

PRIOR APPLICATION NUMBER: US 60/287,066

PRIOR FILING DATE: 2001-04-27

PRIOR APPLICATION NUMBER: US 60/295,890

PRIOR FILING DATE: 2001-06-05

PRIOR APPLICATION NUMBER: US 60/303,899

PRIOR FILING DATE: 2001-07-09

PRIOR APPLICATION NUMBER: US 60/316,362

PRIOR FILING DATE: 2001-08-31

NUMBER OF SEQ ID NOS: 8603

SOFTWARE: PatentIn version 3.1

SEQ ID NO 8298

LENGTH: 1832

TYPE: PRT

ORGANISM: Aspergillus fumigatus

US-10-128-714-8298

# Query Match

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Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LTEVEFEFA 9

Db 1258 LTEAYEFA 1265

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OM protein - protein search, using sw model

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135	28	63.6	2725	9	US-10-455-772-526	Sequence 526, App	208	27	61.4	716	9	US-10-131-826A-96	Sequence 96, Appl
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142	27	61.4	55	9	US-10-467-657-7140	Sequence 7140, Ap	215	27	61.4	737	9	US-10-055-877-156	Sequence 156, App
143	27	61.4	97	11	US-11-096-568A-33323	Sequence 33323, A	216	27	61.4	782	11	US-11-188-298-9942	Sequence 9942, Ap
144	27	61.4	111	11	US-11-096-568A-4479	Sequence 4479, Ap	217	27	61.4	782	11	US-11-096-568A-28864	Sequence 28864, A
145	27	61.4	119	11	US-11-096-568A-33322	Sequence 33322, A	218	27	61.4	780	11	US-11-087-099-1634	Sequence 1634, Ap
146	27	61.4	129	11	US-11-096-568A-4478	Sequence 4478, Ap	219	27	61.4	775	11	US-11-079-463-7858	Sequence 7858, Ap
147	27	61.4	131	11	US-11-096-568A-19294	Sequence 19294, A	220	27	61.4	834	9	US-10-131-826A-148	Sequence 148, App
148	27	61.4	136	11	US-11-188-298-16394	Sequence 16394, A	221	27	61.4	834	9	US-10-973-115B-148	Sequence 148, App
149	27	61.4	141	11	US-11-096-568A-33321	Sequence 33321, A	222	27	61.4	834	9	US-10-137-873A-148	Sequence 148, App
150	27	61.4	164	11	US-11-096-568A-19293	Sequence 19293, A	223	27	61.4	834	9	US-10-152-370-148	Sequence 148, App
151	27	61.4	173	11	US-11-096-568A-19292	Sequence 19292, A	224	27	61.4	834	11	US-11-072-512-2223	Sequence 2232, Ap
152	27	61.4	178	9	US-10-485-517-331	Sequence 21, App	225	27	61.4	834	11	US-11-290-153-148	Sequence 148, App
153	27	61.4	206	11	US-11-188-298-470	Sequence 470, App	226	27	61.4	841	9	US-10-624-932-6	Sequence 6, Appl
154	27	61.4	206	11	US-11-188-298-10048	Sequence 10048, A	227	27	61.4	841	9	US-10-624-932-8	Sequence 8, Appl
155	27	61.4	206	11	US-11-188-298-18342	Sequence 18342, A	228	27	61.4	919	9	US-10-858-730-206	Sequence 206, Appl
156	27	61.4	219	9	US-10-959-322-6	Sequence 6, Appl	229	27	61.4	944	9	US-10-511-989-34	Sequence 34, Appl
157	27	61.4	219	11	US-11-072-512-2924	Sequence 2924, Ap	230	27	61.4	977	9	US-10-511-989-149	Sequence 149, App
158	27	61.4	222	11	US-11-076-164-10	Sequence 10, Appl	231	27	61.4	1125	9	US-10-821-234-1444	Sequence 1444, Ap
159	27	61.4	228	11	US-11-121-438-44	Sequence 44, Appl	232	27	61.4	1249	11	US-11-126-022-25	Sequence 25, Appl
160	27	61.4	233	11	US-11-098-686-10851	Sequence 10851, A	233	27	61.4	1249	11	US-11-126-022-30	Sequence 30, Appl
161	27	61.4	234	9	US-10-467-657-6538	Sequence 6538, Ap	234	27	61.4	4386	11	US-11-004-399-714	Sequence 714, App
162	27	61.4	256	11	US-11-076-164-12	Sequence 12, Appl	235	27	61.4	7465	11	US-11-087-099-7521	Sequence 7521, Ap
163	27	61.4	310	9	US-10-454-437-328	Sequence 328, Appl	236	26	59.1	15	9	US-10-530-061-1668	Sequence 1668, Ap
164	27	61.4	330	9	US-10-511-989-36	Sequence 36, Appl	237	26	59.1	49	11	US-11-183-567A-19	Sequence 19, Appl
165	27	61.4	339	11	US-11-188-298-8481	Sequence 8481, Ap	238	26	59.1	49	11	US-11-183-567A-20	Sequence 20, Appl
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167	27	61.4	361	11	US-11-188-298-3372	Sequence 3372, Ap	240	26	59.1	62	9	US-10-986-405-297	Sequence 297, App

241	26	59.1	64	11	US-11-226-657-151	Sequence 151, App	114	26	59.1	375	11	US-11-188-298-6691	Sequence 6691, Ap
242	26	59.1	69	9	US-10-986-405-355	Sequence 355, App	315	26	59.1	375	11	US-11-188-298-7772	Sequence 7772, Ap
243	26	59.1	84	11	US-11-140-284-13	Sequence 13, App1	316	26	59.1	377	9	US-10-821-234-1436	Sequence 1436, Ap
244	26	59.1	87	11	US-11-096-568A-14024	Sequence 14024, A	317	26	59.1	377	11	US-11-188-298-1743	Sequence 1743, A
245	26	59.1	88	11	US-11-096-568A-14023	Sequence 14023, A	318	26	59.1	380	9	US-10-467-657-6760	Sequence 6760, Ap
246	26	59.1	105	11	US-11-098-686-11146	Sequence 11146, A	319	26	59.1	386	11	US-11-096-568A-1113	Sequence 1113, Ap
247	26	59.1	110	11	US-11-096-568A-30894	Sequence 30894, A	320	26	59.1	397	9	US-10-467-657-4982	Sequence 4982, Ap
248	26	59.1	111	11	US-11-096-568A-25541	Sequence 25541, A	321	26	59.1	407	9	US-10-698-618-1	Sequence 1, App1
249	26	59.1	119	11	US-11-129-076-6	Sequence 6, App1	322	26	59.1	410	11	US-11-096-568A-1112	Sequence 1112, Ap
250	26	59.1	124	11	US-11-096-568A-25540	Sequence 25540, A	323	26	59.1	413	9	US-10-967-648A-8	Sequence 8, App1
251	26	59.1	130	11	US-11-045-004-1886	Sequence 1886, Ap	324	26	59.1	414	11	US-11-096-568A-18170	Sequence 18170, A
252	26	59.1	133	11	US-11-087-099-4031	Sequence 4031, Ap	325	26	59.1	423	11	US-11-096-568A-19391	Sequence 19391, A
253	26	59.1	136	9	US-10-793-626-1062	Sequence 889, App	326	26	59.1	431	11	US-11-079-463-8908	Sequence 6583, Ap
254	26	59.1	139	9	US-11-172-740-889	Sequence 16, App1	327	26	59.1	442	9	US-10-467-657-1614	Sequence 6548, Ap
255	26	59.1	140	9	US-11-667-295-10	Sequence 5, App1	328	26	59.1	442	11	US-11-079-463-6548	Sequence 6548, Ap
256	26	59.1	149	9	US-10-530-253-16	Sequence 1023, A	329	26	59.1	454	11	US-11-188-298-11491	Sequence 11491, A
257	26	59.1	161	11	US-11-129-076-5	Sequence 1023, A	330	26	59.1	455	11	US-11-079-463-8908	Sequence 8508, Ap
258	26	59.1	162	11	US-11-087-099-10255	Sequence 17, App1	331	26	59.1	472	11	US-11-165-211-4	Sequence 7798, Ap
259	26	59.1	167	11	US-11-186-448-17	Sequence 4655, Ap	332	26	59.1	472	11	US-11-165-226-4	Sequence 4, App1
260	26	59.1	171	11	US-11-087-099-4655	Sequence 352, App	333	26	59.1	472	11	US-11-045-004-999	Sequence 999, App
261	26	59.1	173	11	US-11-000-463-352	Sequence 2195, Ap	334	26	59.1	478	11	US-11-172-740-1058	Sequence 1058, App
262	26	59.1	182	11	US-11-045-004-2195	Sequence 22179, A	335	26	59.1	479	11	US-11-096-568A-7797	Sequence 7797, Ap
263	26	59.1	185	11	US-11-096-568A-23179	Sequence 30893, A	336	26	59.1	483	11	US-11-096-568A-7796	Sequence 7796, Ap
264	26	59.1	200	11	US-11-096-568A-30893	Sequence 143, App	337	26	59.1	484	11	US-11-024-959-351	Sequence 351, App
265	26	59.1	225	9	US-10-873-528-143	Sequence 611, App	338	26	59.1	485	11	US-11-188-298-9870	Sequence 9870, Ap
266	26	59.1	234	9	US-10-330-773-611	Sequence 3010, Ap	339	26	59.1	488	11	US-11-079-463-5287	Sequence 5287, Ap
267	26	59.1	239	9	US-10-793-626-3010	Sequence 6, App1	340	26	59.1	490	9	US-10-745-586-128	Sequence 128, App
268	26	59.1	241	11	US-11-153-880-6	Sequence 12, App	341	26	59.1	491	9	US-10-218-784-34	Sequence 34, App1
269	26	59.1	241	11	US-11-064-774A-127	Sequence 20, App1	342	26	59.1	491	9	US-10-219-061-34	Sequence 34, App1
270	26	59.1	241	11	US-11-075-400-20	Sequence 4, App1	343	26	59.1	491	9	US-10-219-062-34	Sequence 34, App1
271	26	59.1	241	11	US-11-211-724-4	Sequence 3, App1	344	26	59.1	491	9	US-10-219-062-34	Sequence 34, App1
272	26	59.1	241	11	US-11-149-462-4	Sequence 3, App1	345	26	59.1	491	9	US-10-233-134-34	Sequence 34, App1
273	26	59.1	241	11	US-11-129-076-3	Sequence 20, App1	346	26	59.1	492	11	US-11-072-512-1974	Sequence 1974, Ap
274	26	59.1	241	11	US-11-076-427A-20	Sequence 6, App1	347	26	59.1	492	11	US-11-072-512-3223	Sequence 3223, Ap
275	26	59.1	241	11	US-11-233-119-6	Sequence 101, App	348	26	59.1	499	11	US-11-024-99A-4	Sequence 4, App1
276	26	59.1	241	11	US-11-075-047A-101	Sequence 8, App1	349	26	59.1	506	11	US-11-024-959-393	Sequence 393, App
277	26	59.1	241	11	US-11-249-422-6	Sequence 10551, A	350	26	59.1	525	11	US-11-188-298-21856	Sequence 21856, A
278	26	59.1	244	9	US-10-523-362-8	Sequence 10551, A	351	26	59.1	531	11	US-11-188-298-10894	Sequence 10894, A
279	26	59.1	250	11	US-11-087-099-10551	Sequence 10458, A	352	26	59.1	568	9	US-10-506-454-1188	Sequence 1188, Ap
280	26	59.1	258	11	US-11-087-099-10458	Sequence 15, App1	353	26	59.1	592	9	US-10-506-454-1017	Sequence 1017, Ap
281	26	59.1	260	11	US-11-171-495-15	Sequence 12008, A	354	26	59.1	593	11	US-11-188-298-7327	Sequence 7327, Ap
282	26	59.1	261	11	US-11-087-099-12008	Sequence 13638, A	355	26	59.1	593	11	US-11-188-298-15734	Sequence 15734, A
283	26	59.1	274	11	US-11-096-568A-13638	Sequence 6585, Ap	356	26	59.1	596	11	US-11-188-298-15167	Sequence 15167, A
284	26	59.1	276	11	US-11-096-568A-6585	Sequence 13637, A	357	26	59.1	604	11	US-11-087-099-15167	Sequence 7588, Ap
285	26	59.1	276	11	US-11-096-568A-13637	Sequence 40, App1	358	26	59.1	614	11	US-11-072-512-3892	Sequence 3892, Ap
286	26	59.1	282	10	US-11-183-218-40	Sequence 40, App1	359	26	59.1	619	11	US-11-096-568A-2576	Sequence 2576, Ap
287	26	59.1	282	10	US-11-183-205-40	Sequence 6, App1	360	26	59.1	619	11	US-11-096-568A-28016	Sequence 28016, A
288	26	59.1	285	9	US-10-467-657-3190	Sequence 1190, Ap	361	26	59.1	627	11	US-11-079-463-7301	Sequence 7301, Ap
289	26	59.1	290	9	US-11-188-298-19542	Sequence 1144, Ap	362	26	59.1	629	11	US-11-087-099-6338	Sequence 6338, Ap
290	26	59.1	294	11	US-10-793-626-1144	Sequence 1255, Ap	363	26	59.1	630	11	US-11-196-400-5	Sequence 5, App1
291	26	59.1	302	9	US-10-506-454-1255	Sequence 9052, A	364	26	59.1	632	11	US-11-079-463-5434	Sequence 5434, Ap
292	26	59.1	305	9	US-11-079-463-9052	Sequence 10784, A	365	26	59.1	633	11	US-11-188-298-978	Sequence 978, App
293	26	59.1	311	11	US-11-188-298-10784	Sequence 2, App1	366	26	59.1	634	9	US-10-793-626-1258	Sequence 1258, Ap
294	26	59.1	324	9	US-10-698-618-2	Sequence 18172, A	367	26	59.1	664	9	US-11-079-463-5434	Sequence 5434, Ap
295	26	59.1	327	11	US-11-096-568A-18172	Sequence 1114, Ap	368	26	59.1	667	11	US-11-079-463-5434	Sequence 9854, Ap
296	26	59.1	332	11	US-11-096-568A-1114	Sequence 9015, Ap	369	26	59.1	679	11	US-11-264-096-617	Sequence 319, App
297	26	59.1	338	11	US-11-188-298-9015	Sequence 862, App	370	26	59.1	683	8	US-10-505-928-187	Sequence 187, App
298	26	59.1	341	11	US-11-045-004-862	Sequence 1284, A	371	26	59.1	689	11	US-11-079-463-10412	Sequence 6144, Ap
299	26	59.1	344	11	US-11-096-568A-6584	Sequence 19393, A	372	26	59.1	717	11	US-11-216-161A-102	Sequence 102, App
300	26	59.1	344	11	US-11-096-568A-19393	Sequence 10729, A	373	26	59.1	730	9	US-11-216-161A-13994	Sequence 13994, A
301	26	59.1	344	11	US-11-096-568A-19393	Sequence 2154, Ap	374	26	59.1	757	11	US-11-188-298-13994	Sequence 9209, Ap
302	26	59.1	344	11	US-11-096-568A-19393	Sequence 11006, A	375	26	59.1	769	11	US-11-079-463-9209	Sequence 2324, Ap
303	26	59.1	344	11	US-11-096-568A-19393	Sequence 2733, Ap	376	26	59.1	808	11	US-11-072-512-324	Sequence 10412, A
304	26	59.1	344	11	US-11-096-568A-19393	Sequence 16029, A	377	26	59.1	811	11	US-11-087-099-11125	Sequence 11125, A
305	26	59.1	344	11	US-11-096-568A-19393	Sequence 22571, A	378	26	59.1	856	11	US-11-087-099-11449	Sequence 11449, A
306	26	59.1	344	11	US-11-096-568A-19393	Sequence 1569, Ap	379	26	59.1	858	11	US-11-087-099-11449	Sequence 6246, Ap
307	26	59.1	344	11	US-11-096-568A-19393	Sequence 18171, A	380	26	59.1	860	11	US-11-087-099-11449	Sequence 221, App
308	26	59.1	344	11	US-11-096-568A-19393	Sequence 19392, A	381	26	59.1	872	11	US-11-207-078-221	Sequence 221, App
309	26	59.1	344	11	US-11-096-568A-19393	Sequence 11005, A	382	26	59.1				
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387	26	59.1	875	11	US-11-188-298-8045	Sequence 8045, Ap	460	25	56.8	219	11	US-11-045-004-1199	Sequence 1199, Ap
388	26	59.1	914	11	US-11-087-099-6835	Sequence 6835, Ap	461	25	56.8	222	11	US-11-124-368A-208	Sequence 208, App
389	26	59.1	946	11	US-11-010-239-42	Sequence 428, App1	462	25	56.8	232	11	US-11-045-004-781	Sequence 781, App
390	26	59.1	1197	11	US-11-087-099-8238	Sequence 8238, Ap	463	25	56.8	234	11	US-11-096-568A-6544	Sequence 6544, Ap
391	26	59.1	1377	9	US-10-821-234-1070	Sequence 1070, Ap	464	25	56.8	241	11	US-11-124-367A-337	Sequence 327, App
392	26	59.1	1496	11	US-11-079-463-8947	Sequence 8947, Ap	465	25	56.8	246	11	US-11-096-568A-22911	Sequence 22911, A
393	26	59.1	1786	11	US-11-196-400-3	Sequence 3, App1	466	25	56.8	248	11	US-11-087-099-10590	Sequence 10590, A
394	26	59.1	1933	9	US-10-523-912-2	Sequence 2, App1	467	25	56.8	259	11	US-11-188-298-16924	Sequence 16924, A
395	26	59.1	1954	9	US-10-784-004-1235	Sequence 1235, Ap	468	25	56.8	260	11	US-11-096-568A-6543	Sequence 6543, Ap
396	26	59.1	2048	11	US-11-116-939-6	Sequence 6, App1	469	25	56.8	262	11	US-11-096-568A-6542	Sequence 6542, Ap
397	26	59.1	2414	11	US-11-154-293-8	Sequence 8, App1	470	25	56.8	265	9	US-10-793-626-174	Sequence 174, App
398	26	59.1	2801	11	US-11-124-368A-305	Sequence 305, App	471	25	56.8	269	11	US-11-096-568A-7367	Sequence 7367, Ap
399	26	59.1	2801	11	US-11-124-367A-433	Sequence 433, App	472	25	56.8	271	9	US-10-506-454-1594	Sequence 1594, Ap
400	26	59.1	2896	11	US-11-124-368A-306	Sequence 306, App	473	25	56.8	271	11	US-11-087-099-22401	Sequence 22401, Ap
401	26	59.1	2896	11	US-11-124-367A-434	Sequence 434, App	474	25	56.8	271	11	US-11-087-099-2750	Sequence 2750, Ap
402	26	59.1	3256	8	US-10-505-928-357	Sequence 357, App	475	25	56.8	271	11	US-11-087-099-4667	Sequence 4667, Ap
403	26	59.1	3256	11	US-11-124-368A-304	Sequence 304, App	476	25	56.8	271	11	US-11-087-099-5782	Sequence 5782, Ap
404	26	59.1	3256	11	US-11-124-367A-432	Sequence 432, App	477	25	56.8	271	11	US-11-087-099-7730	Sequence 7730, Ap
405	25.5	58.0	448	9	US-10-909-769-21	Sequence 21, App1	478	25	56.8	271	11	US-11-087-099-11152	Sequence 11152, A
406	25.5	58.0	875	11	US-11-077-550-128	Sequence 128, App	479	25	56.8	271	11	US-11-096-568A-23464	Sequence 23464, A
407	25.5	58.0	877	11	US-11-077-550-126	Sequence 126, App	480	25	56.8	272	11	US-11-096-568A-25153	Sequence 25153, A
408	25.5	58.0	877	11	US-11-077-550-130	Sequence 130, App	481	25	56.8	272	11	US-11-087-099-5910	Sequence 5910, A
409	25.5	58.0	881	11	US-11-077-550-124	Sequence 124, App	482	25	56.8	272	11	US-11-096-568A-7366	Sequence 7366, Ap
410	25.5	58.0	902	11	US-11-077-550-132	Sequence 132, App	483	25	56.8	274	11	US-11-045-004-2005	Sequence 2005, Ap
411	25.5	58.0	912	11	US-11-077-550-116	Sequence 116, App	484	25	56.8	277	9	US-10-507-720-8	Sequence 8, App1
412	25.5	58.0	944	11	US-11-077-550-120	Sequence 120, App	485	25	56.8	278	11	US-11-096-568A-7365	Sequence 7365, Ap
413	25.5	58.0	944	11	US-11-077-550-122	Sequence 122, App	486	25	56.8	282	11	US-11-096-568A-8188	Sequence 8188, Ap
414	25.5	58.0	950	11	US-11-077-550-118	Sequence 118, App	487	25	56.8	283	9	US-10-455-772-944	Sequence 944, App
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416	25	56.8	15	9	US-10-530-061-1660	Sequence 1660, Ap	489	25	56.8	295	11	US-11-079-463-5457	Sequence 5457, Ap
417	25	56.8	15	9	US-10-530-061-1674	Sequence 1674, Ap	490	25	56.8	296	11	US-11-188-298-15682	Sequence 15682, A
418	25	56.8	70	11	US-11-045-004-2324	Sequence 2324, Ap	491	25	56.8	299	9	US-10-455-772-954	Sequence 94, App
419	25	56.8	82	9	US-10-467-657-5534	Sequence 5534, Ap	492	25	56.8	302	10	US-11-301-554-806	Sequence 806, App
420	25	56.8	87	11	US-11-096-568A-21361	Sequence 21361, A	493	25	56.8	306	9	US-10-506-454-50	Sequence 50, App1
421	25	56.8	94	11	US-11-045-004-2247	Sequence 2247, Ap	494	25	56.8	306	11	US-11-188-298-12363	Sequence 12363, A
422	25	56.8	95	11	US-11-096-568A-5322	Sequence 5322, Ap	495	25	56.8	310	11	US-11-096-568A-28066	Sequence 28066, A
423	25	56.8	98	11	US-11-251-821-51	Sequence 51, App1	496	25	56.8	316	11	US-11-072-512-2056	Sequence 2056, Ap
424	25	56.8	102	11	US-11-096-568A-5321	Sequence 5321, Ap	497	25	56.8	312	11	US-11-096-568A-23462	Sequence 23462, A
425	25	56.8	102	11	US-11-079-463-8744	Sequence 8744, Ap	498	25	56.8	311	11	US-11-045-004-1969	Sequence 1969, Ap
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427	25	56.8	114	9	US-10-467-657-9450	Sequence 4450, Ap	500	25	56.8	322	11	US-11-074-176-36	Sequence 36, App1
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## ALIGNMENTS

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Qy 1 ELTEVEFEFA 9
Db 1 ELTEVEFEFA 9
```

```
RESULT 2
US-10-530-253-15
; Sequence 15, Application US/10530253
```

```
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 18
US-10-530-253-15
```

```
Query Match 100.0%; Score 44; DB 9; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.072;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 ELTEVEFEFA 9
Db 40 ELTEVEFEFA 48
```

```
RESULT 3
US-11-079-463-10004
; Sequence 10004, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRAC
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 10004
; LENGTH: 312
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-10004
```

```
Query Match 75.0%; Score 33; DB 11; Length 312;
Best Local Similarity 55.6%; Pred. No. 28;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 ELTEVEFEFA 9
Db 130 ELTEVEFEFA 138
```

```
RESULT 4
US-11-096-568A-25122
; Sequence 25122, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides f
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
```



; NUMBER OF SEQ ID NOS: 34471  
; SEQ ID NO 25122  
; LENGTH: 441  
; TYPE: PRT  
; ORGANISM: Zea mays subsp. mays  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(441)  
; OTHER INFORMATION: Ceres Seq. ID no. 12566007  
US-11-096-568A-25122

Query Match 75.0%; Score 32; DB 11; Length 441;  
Best Local Similarity 75.0%; Pred. No. 41;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 LTEVEFEA 9  
Db 24 LTEVFQFS 31

## RESULT 5

US-10-530-253-19  
; Sequence 19, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Casasetti, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; PRIOR FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 19  
; LENGTH: 158  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 39  
US-10-530-253-19

Query Match 72.7%; Score 32; DB 9; Length 158;  
Best Local Similarity 85.7%; Pred. No. 21;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 TEVEFEA 9  
Db 42 TEVEFEA 48

## RESULT 6

US-10-530-253-20  
; Sequence 20, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Casasetti, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; PRIOR FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 20  
; LENGTH: 158  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 45  
US-10-530-253-20

Query Match 72.7%; Score 32; DB 9; Length 158;  
Best Local Similarity 66.7%; Pred. No. 21;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELTEVEFEA 9  
Db 40 ERTEVQFA 48

## RESULT 7

US-10-530-253-26  
; Sequence 26, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Casasetti, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; PRIOR FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 26  
; LENGTH: 158  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 68  
US-10-530-253-26

Query Match 72.7%; Score 32; DB 9; Length 158;  
Best Local Similarity 85.7%; Pred. No. 21;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 TEVEFEA 9  
Db 42 TEVEFEA 48

## RESULT 8

US-11-087-099-3773  
; Sequence 3773, Application US/11087099  
; Publication No. US20060041961A1  
; GENERAL INFORMATION:  
; APPLICANT: Adad, Mark S. et al.  
; TITLE OF INVENTION: Genes and Uses for Plant Improvement  
; FILE REFERENCE: 38-21(53450)B EP  
; CURRENT APPLICATION NUMBER: US/11/087,099  
; PRIOR FILING DATE: 2005-03-22  
; NUMBER OF SEQ ID NOS: 12464  
; SEQ ID NO 3773  
; LENGTH: 219  
; TYPE: PRT  
; ORGANISM: Glycine max  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)..(219)  
; OTHER INFORMATION: unsure at all Xaa locations  
US-11-087-099-3773

Query Match 72.7%; Score 32; DB 11; Length 219;  
Best Local Similarity 75.0%; Pred. No. 30;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ELTEVEFEF 8  
Db 146 EMREVEFEF 153

## RESULT 9

US-11-096-568A-31317  
; Sequence 31317, Application US/11096568A  
; Publication No. US20060048240A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexandrov, Nikolai et al.  
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
; FILE REFERENCE: 2750-1592PUS2  
; CURRENT FILING DATE: 2005-04-01  
; NUMBER OF SEQ ID NOS: 34471  
; SEQ ID NO 31317  
; LENGTH: 331  
; TYPE: PRT  
; ORGANISM: Arabidopsis thaliana  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(331)  
; OTHER INFORMATION: Ceres Seq. ID no. 15222683  
US-11-096-568A-31317

Query Match 70.5%; Score 31; DB 11; Length 331;  
Best Local Similarity 75.0%; Pred. No. 77;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ELTEVEFEF 8  
Db 306 DLTEKEFEF 313

## RESULT 10

US-11-188-298-673  
; Sequence 673, Application US/11188298  
; Publication No. US20060075522A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
; FILE REFERENCE: 38-21(53452)B  
; CURRENT FILING DATE: 2005-07-22  
; PRIOR APPLICATION NUMBER: US/11/188,298  
; PRIOR FILING DATE: 2004-07-31  
; NUMBER OF SEQ ID NOS: 22569  
; SEQ ID NO 673  
; LENGTH: 336  
; TYPE: PRT  
; ORGANISM: Staphylococcus aureus subsp. aureus Mu50  
US-11-188-298-673

Query Match 70.5%; Score 31; DB 11; Length 336;  
Best Local Similarity 66.7%; Pred. No. 78;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 ELTEVEFEF 9  
Db 291 DLREAFEF 299

## RESULT 11

US-11-188-298-21543  
; Sequence 21543, Application US/11188298  
; Publication No. US20060075522A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
; FILE REFERENCE: 38-21(53452)B

CURRENT APPLICATION NUMBER: US/11/188,298

CURRENT FILING DATE: 2005-07-22

PRIOR APPLICATION NUMBER: 60/592,978

PRIOR FILING DATE: 2004-07-31

NUMBER OF SEQ ID NOS: 22569

SEQ ID NO 21543

LENGTH: 336

TYPE: PRT

ORGANISM: Staphylococcus aureus subsp. aureus MW2

US-11-188-298-21543

## RESULT 12

US-11-096-568A-31316  
; Sequence 31316, Application US/11096568A  
; Publication No. US20060048240A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexandrov, Nikolai et al.  
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
; FILE REFERENCE: 2750-1592PUS2  
; CURRENT FILING DATE: 2005-04-01  
; NUMBER OF SEQ ID NOS: 34471  
; SEQ ID NO 31316  
; LENGTH: 512  
; TYPE: PRT  
; ORGANISM: Arabidopsis thaliana  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(512)  
; OTHER INFORMATION: Ceres Seq. ID no. 15222682  
US-11-096-568A-31316

Query Match 70.5%; Score 31; DB 11; Length 512;  
Best Local Similarity 75.0%; Pred. No. 1.3e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ELTEVEFEF 8  
Db 487 DLTEKEFEF 494

## RESULT 13

US-11-096-568A-31315  
; Sequence 31315, Application US/11096568A  
; Publication No. US20060048240A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexandrov, Nikolai et al.  
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
; FILE REFERENCE: 2750-1592PUS2  
; CURRENT FILING DATE: 2005-04-01  
; NUMBER OF SEQ ID NOS: 34471  
; SEQ ID NO 31315  
; LENGTH: 520  
; TYPE: PRT  
; ORGANISM: Arabidopsis thaliana  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(520)  
; OTHER INFORMATION: Ceres Seq. ID no. 15222681  
US-11-096-568A-31315

Query Match 70.5%; Score 31; DB 11; Length 520;  
Best Local Similarity 75.0%; Pred. No. 1.3e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELTEVEFE 8  
DB 495 ELTKVFE 502

RESULT 14  
US-09-978-360A-725  
; Sequence 725, Application US/09978360A  
; Publication No. US20060009633A9  
; GENERAL INFORMATION:  
; APPLICANT: Edwards, Jean-Baptiste Dumas Milne  
; APPLICANT: Duclert, Aymeric  
; APPLICANT: Bougueleret, Lydie  
; APPLICANT: Joberet, Severin  
; APPLICANT: Clusel, Catherine  
; TITLE OF INVENTION: Complementary DNA's Encoding Proteins with Signal Peptides  
; FILE REFERENCE: 56.USA.CIP  
; CURRENT APPLICATION NUMBER: US/09/978,360A  
; PRIOR FILING DATE: 2001-10-15  
; PRIOR APPLICATION NUMBER: US 60/066,677  
; PRIOR FILING DATE: 1997-11-13  
; PRIOR APPLICATION NUMBER: US 60/069,957  
; PRIOR FILING DATE: 1997-12-17  
; PRIOR APPLICATION NUMBER: US 60/074,121  
; PRIOR FILING DATE: 1998-02-09  
; PRIOR APPLICATION NUMBER: US 60/081,563  
; PRIOR FILING DATE: 1998-04-13  
; PRIOR APPLICATION NUMBER: US 60/096,116  
; PRIOR FILING DATE: 1998-08-10  
; PRIOR APPLICATION NUMBER: US 60/099,273  
; PRIOR FILING DATE: -09-04  
; PRIOR APPLICATION NUMBER: US 09/191,997  
; PRIOR FILING DATE: 1998-11-13  
; PRIOR APPLICATION NUMBER: US 09/215,435  
; PRIOR FILING DATE: 1998-12-17  
; PRIOR APPLICATION NUMBER: PCT/IB98/02122  
; PRIOR FILING DATE: 1998-12-17  
; PRIOR APPLICATION NUMBER: US 09/247,155  
; PRIOR FILING DATE: 1999-02-09  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 810  
; SOFTWARE: Patent.pm  
; SEQ ID NO 725  
; LENGTH: 109  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-978-360A-725

Query Match 68.2%; Score 30; DB 7; Length 109;  
Best Local Similarity 85.7%; Pred. No. 35;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFE 7  
DB 83 ELTKVFE 89

RESULT 15  
US-09-978-360A-740  
; Sequence 740, Application US/09978360A  
; Publication No. US20060009633A9  
; GENERAL INFORMATION:  
; APPLICANT: Edwards, Jean-Baptiste Dumas Milne  
; APPLICANT: Duclert, Aymeric  
; APPLICANT: Bougueleret, Lydie  
; APPLICANT: Joberet, Severin  
; APPLICANT: Clusel, Catherine  
; TITLE OF INVENTION: Complementary DNA's Encoding Proteins with Signal Peptides  
; FILE REFERENCE: 56.USA.CIP

CURRENT APPLICATION NUMBER: US/09/978,360A  
; CURRENT FILING DATE: 2001-10-15  
; PRIOR APPLICATION NUMBER: US 60/066,677  
; PRIOR FILING DATE: 1997-11-13  
; PRIOR APPLICATION NUMBER: US 60/069,957  
; PRIOR FILING DATE: 1997-12-17  
; PRIOR APPLICATION NUMBER: US 60/074,121  
; PRIOR FILING DATE: 1998-02-09  
; PRIOR APPLICATION NUMBER: US 60/081,563  
; PRIOR FILING DATE: 1998-04-13  
; PRIOR APPLICATION NUMBER: US 60/096,116  
; PRIOR FILING DATE: 1998-08-10  
; PRIOR APPLICATION NUMBER: US 60/099,273  
; PRIOR FILING DATE: -09-04  
; PRIOR APPLICATION NUMBER: US 09/191,997  
; PRIOR FILING DATE: 1998-11-13  
; PRIOR APPLICATION NUMBER: US 09/215,435  
; PRIOR FILING DATE: 1998-12-17  
; PRIOR APPLICATION NUMBER: PCT/IB98/02122  
; PRIOR FILING DATE: 1998-12-17  
; PRIOR APPLICATION NUMBER: US 09/247,155  
; PRIOR FILING DATE: 1999-02-09  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 810  
; SOFTWARE: Patent.pm  
; SEQ ID NO 740  
; LENGTH: 142  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-978-360A-740

Query Match 68.2%; Score 30; DB 7; Length 142;  
Best Local Similarity 85.7%; Pred. No. 48;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFE 7  
DB 116 ELTKVFE 122

RESULT 16  
US-10-505-928-189  
; Sequence 189, Application US/10505928  
; Publication No. US20060086532A1  
; GENERAL INFORMATION:  
; APPLICANT: Ludwig Institute for Cancer Research et al.  
; TITLE OF INVENTION: LYMPHATIC ENDOTHELIAL GENES  
; FILE REFERENCE: 28967/39178  
; CURRENT APPLICATION NUMBER: US/10/505,928  
; CURRENT FILING DATE: 2004-08-27  
; PRIOR APPLICATION NUMBER: US 60/363,019  
; PRIOR FILING DATE: 2002-03-07  
; NUMBER OF SEQ ID NOS: 866  
; SOFTWARE: Patent.in 3.2  
; SEQ ID NO 189  
; LENGTH: 142  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-505-928-189

Query Match 68.2%; Score 30; DB 8; Length 142;  
Best Local Similarity 85.7%; Pred. No. 48;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFE 7  
DB 116 ELTKVFE 122

RESULT 17  
US-10-530-253-25  
; Sequence 25, Application US/10530253  
; Publication No. US20060014926A1

```

; GENERAL INFORMATION:
; APPLICANT: Casasotti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 25
; LENGTH: 160
; TYPE: PRT
; ORGANISM: Human papillomavirus type 59
US-10-530-253-25
```

```
Query Match      68.2%; Score 30; DB 9; Length 160;
Best Local Similarity 100.0%; Pred. No. 54;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Oy      4 EVFEFA 9
Db      43 EVFEFA 48
```

```

RESULT 18
US-11-072-512-2458
; Sequence 2458, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOTYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4086
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2458
; LENGTH: 311
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-2458
```

```
Query Match      68.2%; Score 30; DB 11; Length 311;
Best Local Similarity 66.7%; Pred. No. 1,2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Oy      1 ELTEVEFEFA 9
Db      37 ENSELEFEFA 45
```

```

RESULT 19
US-11-188-298-7665
; Sequence 7665, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 7665
; LENGTH: 396
; TYPE: PRT
; ORGANISM: Pseudomonas syringae pv. tomato str. DC3000
US-11-188-298-7665
```

```
Query Match      68.2%; Score 30; DB 11; Length 396;
Best Local Similarity 62.5%; Pred. No. 1.5e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Oy      2 LTEVEFEFA 9
Db      186 LTRIFEFA 193
```

```

RESULT 20
US-11-098-686-10532
; Sequence 10532, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
; APPLICANT: Kapur, Vivek and Gebhart, Connie J.
; TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
; FILE REFERENCE: 09531-128001
; CURRENT APPLICATION NUMBER: US/11/098,686
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31318
; PRIOR FILING DATE: 2003-10-01
; PRIOR APPLICATION NUMBER: US 60/416,395
; PRIOR FILING DATE: 2002-10-04
; NUMBER OF SEQ ID NOS: 11433
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10532
; LENGTH: 732
; TYPE: PRT
; ORGANISM: Lawsonia intracellularis
US-11-098-686-10532
```

```
Query Match      68.2%; Score 30; DB 11; Length 732;
Best Local Similarity 77.8%; Pred. No. 3e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
Oy      1 ELTEVEFEFA 9
Db      483 ELTEVEFEFA 491
```

```

RESULT 21
US-11-000-463-721
; Sequence 721, Application US/11000463
; Publication No. US20050266423A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
```

```

; APPLICANT: Chen, Rui-hong
; APPLICANT: Qian, Xiaohong B.
; APPLICANT: Wang, Zhiwei
; APPLICANT: Wehrman, Tom
; APPLICANT: Zhang, Jie
; APPLICANT: Zhou, Ping
; APPLICANT: Cao, Yi-Cheng
; APPLICANT: Drmanac, Radjoe T.
; TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides
; FILE REFERENCE: 785CIP4CN
; CURRENT APPLICATION NUMBER: US/11/000,463
; PRIOR FILING DATE: 2004-11-29
; PRIOR APPLICATION NUMBER: 10/291,265
; PRIOR FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: PCT/US01/02623
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 09/922,279
; PRIOR FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: 09/491,404
; PRIOR FILING DATE: 2000-01-25
; PRIOR APPLICATION NUMBER: 09/617,746
; PRIOR FILING DATE: 2000-07-17
; PRIOR APPLICATION NUMBER: 09/631,451
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: 09/633,870
; PRIOR FILING DATE: 2000-09-15
; NUMBER OF SEQ ID NOS: 944
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 721
; LENGTH: 1070
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)..(1070)
; OTHER INFORMATION: Xaa = any amino acid or nothing
;
US-11-000-463-721

Query Match          68.2%; Score 30; DB 11; Length 1070;
Best Local Similarity 62.5%; Pred. No. 4.6e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1 ELTEVFEF 8
Db      259 ELSDVDF 266

RESULT 22
; Sequence 249, Application US/11000463
; Publication No. US20050266423A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Chen, Rui-hong
; APPLICANT: Qian, Xiaohong B.
; APPLICANT: Wang, Zhiwei
; APPLICANT: Wehrman, Tom
; APPLICANT: Zhang, Jie
; APPLICANT: Zhou, Ping
; APPLICANT: Cao, Yi-Cheng
; APPLICANT: Drmanac, Radjoe T.
; TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides
; FILE REFERENCE: 785CIP4CN
; CURRENT APPLICATION NUMBER: US/11/000,463
; PRIOR FILING DATE: 2004-11-29
; PRIOR APPLICATION NUMBER: 10/291,265
; PRIOR FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: PCT/US01/02623
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 09/922,279
; PRIOR FILING DATE: 2001-08-03
```

```

; PRIOR APPLICATION NUMBER: 09/491,404
; PRIOR FILING DATE: 2000-01-25
; PRIOR APPLICATION NUMBER: 09/617,746
; PRIOR FILING DATE: 2000-07-17
; PRIOR APPLICATION NUMBER: 09/631,451
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: 09/633,870
; PRIOR FILING DATE: 2000-09-15
; NUMBER OF SEQ ID NOS: 944
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 249
; LENGTH: 1194
; TYPE: PRT
; ORGANISM: Homo sapiens
;
US-11-000-463-249

Query Match          68.2%; Score 30; DB 11; Length 1194;
Best Local Similarity 62.5%; Pred. No. 5.2e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1 ELTEVFEF 8
Db      259 ELSDVDF 266

RESULT 23
; Sequence 47, Application US/11043889
; Publication No. US2006008819A1
; GENERAL INFORMATION:
; APPLICANT: Curtis, Rory A.J.
; APPLICANT: Gluckman, Maria Alexandra
; APPLICANT: Meyers, Rachel E.
; TITLE OF INVENTION: NOVEL 38594, 57312, 53659, 57250, 63760, 49938, 32146,
; TITLE OF INVENTION: 57259, 67118, 67067, 62092, FBH5825FT, 57235,
; TITLE OF INVENTION: AND 57255alt MOLECULES AND USES THEREFOR
; FILE REFERENCE: MP102-095DVLOMNIM
; CURRENT APPLICATION NUMBER: US/11/043,889
; CURRENT FILING DATE: 2005-01-26
; PRIOR APPLICATION NUMBER: US 10/154,419
; PRIOR FILING DATE: 2002-05-22
; PRIOR APPLICATION NUMBER: US 09/858194
; PRIOR FILING DATE: 2001-05-14
; PRIOR APPLICATION NUMBER: US 60/204211
; PRIOR FILING DATE: 2000-05-12
; PRIOR APPLICATION NUMBER: US 09/895811
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/215376
; PRIOR FILING DATE: 2000-06-29
; PRIOR APPLICATION NUMBER: US 09/919781
; PRIOR FILING DATE: 2001-07-31
; PRIOR APPLICATION NUMBER: US 60/221769
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: US 09/957664
; PRIOR FILING DATE: 2001-09-19
; PRIOR APPLICATION NUMBER: US 60/233790
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: US 09/964295
; PRIOR FILING DATE: 2001-09-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 59
; SOFTWARE: FastSeq Version 4.0
; SEQ ID NO 47
; LENGTH: 1508
; TYPE: PRT
; ORGANISM: Mus musculus
;
US-11-043-889-47

Query Match          68.2%; Score 30; DB 11; Length 1508;
Best Local Similarity 62.5%; Pred. No. 6.8e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

Db 568 ELSDFDF 575

RESULT 24  
US-10-530-061-564  
; Sequence 564, Application US/10530061  
; Publication No. US20060079453A1  
; GENERAL INFORMATION:  
; APPLICANT: SIDNEY, JOHN  
; APPLICANT: SOUTHWOOD, SCOTT  
; APPLICANT: SETTE, ALESSANDRO  
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
; FILE REFERENCE: 2060\_03US02/EXS/M-M  
; CURRENT APPLICATION NUMBER: US/10/530,061  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US03/31308  
; PRIOR FILING DATE: 2003-10-03  
; PRIOR APPLICATION NUMBER: 60/416,207  
; PRIOR FILING DATE: 2002-10-03  
; PRIOR APPLICATION NUMBER: 60/417,269  
; PRIOR FILING DATE: 2002-10-08  
; NUMBER OF SEQ ID NOS: 2503  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 564  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Human papillomavirus  
US-10-530-061-564

Query Match 65.9%; Score 29; DB 9; Length 10;  
Best Local Similarity 71.4%; Pred. No. 3.9;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 TEVEFEFA 9  
Db 2 TEVYQFA 8

RESULT 25  
US-11-045-004-2503  
; Sequence 2503, Application US/11045004  
; Publication No. US20060078901A1  
; GENERAL INFORMATION:  
; APPLICANT: BUCHRISSER, CARMEN  
; APPLICANT: FRANGEUL, LIONEL  
; APPLICANT: COUVE, ELISABETH  
; APPLICANT: RUSNIOK, CHRISTOPHE  
; APPLICANT: FSJHI, HAFIDA  
; APPLICANT: DEHOUX, PIERRE  
; APPLICANT: DUSSENET, OLIVIER  
; APPLICANT: CHETOUANI, FARID  
; APPLICANT: NEDJARI, HAFED  
; APPLICANT: GLASER, PHILIPPE  
; APPLICANT: KUNST, FRANCK  
; APPLICANT: COSSART, PASCALE  
; APPLICANT: DANIELS, JUSTIN  
; APPLICANT: GOEBEL, WERNER  
; APPLICANT: KREFT, JURGEN  
; APPLICANT: KUHN, MICHAEL  
; APPLICANT: NG, EVA  
; APPLICANT: VAZQUEZ-BOLAND, ANTONIO  
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO  
; APPLICANT: GARRIDO-GARCIA, PATRICIA  
; APPLICANT: TIERREZ-MARTINEZ, ALBERTO  
; APPLICANT: AMEND, ALEXANDRA  
; APPLICANT: CHAKRABORTY, TRINAD  
; APPLICANT: DOMANN, EUGEN  
; APPLICANT: HAIN, THORSTEN  
; APPLICANT: BERGER, PATRICK  
; APPLICANT: CHARBIT, ALAIN  
; APPLICANT: DURANT, LIONEL  
; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO

APPLICANT: BAQUERO, FERNANDO  
APPLICANT: GARCIA DEL PORTILLO, FRANCISCO  
APPLICANT: GOMEZ-LOPEZ, NURIA  
APPLICANT: MADUENIO, ENCARNIA  
APPLICANT: PABLOS, BETRIZ DE  
APPLICANT: WEHLAND, JURGEN  
APPLICANT: KARST, UWE  
APPLICANT: ENTIAN, KARL-DIETER  
APPLICANT: HAUF, JORG  
APPLICANT: ROSE, MATTHIAS  
APPLICANT: VOSS, HANUT  
; TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES  
; FILE REFERENCE: 05394,0018-02  
; CURRENT APPLICATION NUMBER: US/11/045,004  
; CURRENT FILING DATE: 2005-01-28  
; PRIOR APPLICATION NUMBER: 10/637,657  
; PRIOR FILING DATE: 2003-08-11  
; PRIOR APPLICATION NUMBER: 10/257,023  
; PRIOR FILING DATE: 2002-10-08  
; PRIOR APPLICATION NUMBER: PCT/FR01/01118  
; PRIOR FILING DATE: 2001-04-11  
; PRIOR APPLICATION NUMBER: FR 00/04,629  
; PRIOR FILING DATE: 2000-04-11  
; NUMBER OF SEQ ID NOS: 2854  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 2503  
; LENGTH: 121  
; TYPE: PRT  
; ORGANISM: Listeria monocytogenes  
US-11-045-004-2503

Query Match 65.9%; Score 29; DB 11; Length 121;  
Best Local Similarity 62.5%; Pred. No. 64;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 2 LTEVEFEFA 9  
Db 5 LTKVFDYA 12

RESULT 26  
US-10-793-626-408  
; Sequence 408, Application US/10793626  
; Publication No. US20050255478A1  
; GENERAL INFORMATION:  
; APPLICANT: KIMBERLY, WILLIAM JOHN  
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS  
; FILE REFERENCE: P03480US  
; CURRENT APPLICATION NUMBER: US/10/793,626  
; CURRENT FILING DATE: 2004-03-04  
; PRIOR APPLICATION NUMBER: 60/164,258  
; PRIOR FILING DATE: 1999-11-09  
; NUMBER OF SEQ ID NOS: 4472  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 408  
; LENGTH: 167  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: synthetic  
; OTHER INFORMATION: amino acid sequence  
US-10-793-626-408

Query Match 65.9%; Score 29; DB 9; Length 167;  
Best Local Similarity 71.4%; Pred. No. 92;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 TEVEFEFA 9  
Db 103 TELVQFA 109

RESULT 27

```
US-10-784-004-665
; Sequence 665, Application US/10784004
; Publication No. US20060084066A1
; GENERAL INFORMATION:
; APPLICANT: Biogen Idec
; TITLE OF INVENTION: Surrogate Markers of Pain
; FILE REFERENCE: 08201.6029-00000
; CURRENT APPLICATION NUMBER: US/10/784,004
; CURRENT FILING DATE: 2004-02-20
; NUMBER OF SEQ ID NOS: 1251
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 665
; LENGTH: 222
; TYPE: PRT
; ORGANISM: human
US-10-784-004-665

Query Match
Best Local Similarity 65.9%; Score 29; DB 9; Length 222;
Best Local Similarity 62.5%; Pred. No. 1.3e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ELTEVEEF 8
Db 90 ESSEIEEF 97

RESULT 28
US-10-784-004-343
; Sequence 343, Application US/10784004
; Publication No. US20060084066A1
; GENERAL INFORMATION:
; APPLICANT: Biogen Idec
; TITLE OF INVENTION: Surrogate Markers of Pain
; FILE REFERENCE: 08201.6029-00000
; CURRENT APPLICATION NUMBER: US/10/784,004
; CURRENT FILING DATE: 2004-02-20
; NUMBER OF SEQ ID NOS: 1251
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 343
; LENGTH: 223
; TYPE: PRT
; ORGANISM: rat
US-10-784-004-343

Query Match
Best Local Similarity 65.9%; Score 29; DB 9; Length 223;
Best Local Similarity 62.5%; Pred. No. 1.3e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ELTEVEEF 8
Db 91 ESSEIEEF 98

RESULT 29
US-11-079-463-5522
; Sequence 5522, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Bretton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRU
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 5522
; LENGTH: 228
; TYPE: PRT
; ORGANISM: B.fragilis
```

```
US-11-079-463-5522

Query Match
Best Local Similarity 65.9%; Score 29; DB 11; Length 228;
Best Local Similarity 85.7%; Pred. No. 1.3e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ELTEVEEF 7
Db 106 EATVEFE 112

RESULT 30
US-11-096-568A-23063
; Sequence 23063, Application US/11096568A
; Publication No. US20060046240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Theby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 23063
; LENGTH: 283
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(283)
; OTHER INFORMATION: Ceres Seq. ID no. 12411185
US-11-096-568A-23063

Query Match
Best Local Similarity 65.9%; Score 29; DB 11; Length 283;
Best Local Similarity 55.6%; Pred. No. 1.7e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 ELTEVEFEA 9
Db 19 EITFEFSFS 27

RESULT 31
US-10-467-657-3878
; Sequence 3878, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: CONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 3878
; LENGTH: 289
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-3878

Query Match
Best Local Similarity 65.9%; Score 29; DB 9; Length 289;
Best Local Similarity 71.4%; Pred. No. 1.7e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 3 TEVEFEA 9
Db 223 TELFDEFA 229
```

```
RESULT 32
US-11-188-298-2935
; Sequence 2935, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 2935
; LENGTH: 303
; TYPE: PRT
; ORGANISM: Chlamydomophila pneumoniae CML029
US-11-188-298-2935
```

```
Query Match          65.9%; Score 29; DB 11; Length 303;
Best Local Similarity 71.4%; Pred. No. 1.8e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      2 LTEVFEF 8
      ||:||||
Db       75 LTNIFE 81
```

```
RESULT 33
US-11-188-298-11326
; Sequence 11326, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 11326
; LENGTH: 305
; TYPE: PRT
; ORGANISM: Chlamydomophila pneumoniae AR39
US-11-188-298-11326
```

```
Query Match          65.9%; Score 29; DB 11; Length 305;
Best Local Similarity 71.4%; Pred. No. 1.8e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      2 LTEVFEF 8
      ||:||||
Db       77 LTNIFE 83
```

```
RESULT 34
US-10-506-454-61
; Sequence 61, Application US/10506454
; Publication No. US20060068386A1
; GENERAL INFORMATION:
; APPLICANT: Slesarev, Alexi I
; APPLICANT: Mezhevaya, Katja V
; APPLICANT: Polushin, Nikolai N
; APPLICANT: Shcherbintina, Olga V
; APPLICANT: Shakhova, Vera V
; APPLICANT: Malykh, Andrei G
; APPLICANT: Kozavkin, Sergei A
; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile
; TITLE OF INVENTION: Methanopyrus Kandleri AV19 and Monophyly of Archaeal Methanogens
; TITLE OF INVENTION: and Methods of Use Thereof
```

```
FILE REFERENCE: FID001
; CURRENT APPLICATION NUMBER: US/10/506,454
; CURRENT FILING DATE: 2004-08-31
; PRIOR APPLICATION NUMBER: PCT/US03/06664
; PRIOR FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: 60/361,742
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1722
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 61
; LENGTH: 340
; TYPE: PRT
; ORGANISM: Methanopyrus kandleri
US-10-506-454-61
```

```
Query Match          65.9%; Score 29; DB 9; Length 340;
Best Local Similarity 66.7%; Pred. No. 2e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 ELTEVFPEFA 9
      ||:||||
Db       204 ELDEVYELA 212
```

```
RESULT 35
US-11-096-568A-23062
; Sequence 23062, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 23062
; LENGTH: 342
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(342)
; OTHER INFORMATION: Cerec Seq. ID no. 12411184
US-11-096-568A-23062
```

```
Query Match          65.9%; Score 29; DB 11; Length 342;
Best Local Similarity 55.6%; Pred. No. 2.1e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 ELTEVFPEFA 9
      ||:||||
Db       78 ELTEFFSFS 86
```

```
RESULT 36
US-11-087-099-6281
; Sequence 6281, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 6281
; LENGTH: 345
; TYPE: PRT
; ORGANISM: Pseudomonas syringae pv. syringae B728a
US-11-087-099-6281
```

```
Query Match          65.9%; Score 29; DB 11; Length 345;
```



Best Local Similarity 66.7%; Pred. No. 2.1e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 ELTEVF 9  
Db 322 ELTEVDF 330

## RESULT 37

US-11-188-298-19224  
; Sequence 19224, Application US/11188298  
; Publication No. US20060075522A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
; FILE REFERENCE: 38-21(53452)B  
; CURRENT APPLICATION NUMBER: US/11/188,298  
; PRIOR FILING DATE: 2005-07-22  
; PRIOR APPLICATION NUMBER: 60/592,978  
; NUMBER OF SEQ ID NOS: 22569  
; SEQ ID NO 19224  
; LENGTH: 356  
; TYPE: PRT  
; ORGANISM: Bacillus subtilis subsp. subtilis str. 168  
US-11-188-298-19224

Query Match 65.9%; Score 29; DB 11; Length 356;  
Best Local Similarity 100.0%; Pred. No. 2.1e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ELTEVF 6  
Db 294 ELTEVF 299

## RESULT 38

US-10-485-517-227  
; Sequence 227, Application US/10485517  
; Publication No. US2005025629A1  
; GENERAL INFORMATION:  
; APPLICANT: University of Sheffield  
; APPLICANT: Biosynex Incorporated  
; APPLICANT: Foster, Simon  
; APPLICANT: Mond, James  
; TITLE OF INVENTION: Antigenic Polypeptides  
; FILE REFERENCE: P100629WO  
; CURRENT APPLICATION NUMBER: US/10/485,517  
; PRIOR FILING DATE: 2004-02-02  
; PRIOR APPLICATION NUMBER: GB 0118825.9  
; PRIOR FILING DATE: 2001-08-02  
; PRIOR APPLICATION NUMBER: GB 0200349.9  
; PRIOR FILING DATE: 2002-01-09  
; NUMBER OF SEQ ID NOS: 424  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 227  
; LENGTH: 358  
; TYPE: PRT  
; ORGANISM: Staphylococcus aureus  
US-10-485-517-227

Query Match 65.9%; Score 29; DB 9; Length 358;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ELTEVF 6  
Db 293 ELTEVF 298

RESULT 39  
US-10-793-626-18  
; Sequence 18, Application US/10793626

; Publication No. US20050255478A1

; GENERAL INFORMATION:  
; APPLICANT: KIMBERLY, WILLIAM JOHN  
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS  
; FILE REFERENCE: P03480US  
; CURRENT APPLICATION NUMBER: US/10/793,626  
; PRIOR FILING DATE: 2004-03-04  
; PRIOR APPLICATION NUMBER: 60/164,258  
; PRIOR FILING DATE: 1999-11-09  
; NUMBER OF SEQ ID NOS: 4472  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 18  
; LENGTH: 358  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: synthetic  
; OTHER INFORMATION: amino acid sequence  
US-10-793-626-18

Query Match 65.9%; Score 29; DB 9; Length 358;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ELTEVF 6  
Db 293 ELTEVF 298

RESULT 40  
US-11-188-298-14936  
; Sequence 14936, Application US/11188298  
; Publication No. US20060075522A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
; FILE REFERENCE: 38-21(53452)B  
; CURRENT APPLICATION NUMBER: US/11/188,298  
; PRIOR FILING DATE: 2005-07-22  
; PRIOR APPLICATION NUMBER: 60/592,978  
; PRIOR FILING DATE: 2004-07-31  
; NUMBER OF SEQ ID NOS: 22569  
; SEQ ID NO 14936  
; LENGTH: 358  
; TYPE: PRT  
; ORGANISM: Staphylococcus epidermidis ATCC 12228  
US-11-188-298-14936

Query Match 65.9%; Score 29; DB 11; Length 358;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ELTEVF 6  
Db 293 ELTEVF 298

RESULT 41  
US-11-188-298-21490  
; Sequence 21490, Application US/11188298  
; Publication No. US20060075522A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
; FILE REFERENCE: 38-21(53452)B  
; CURRENT APPLICATION NUMBER: US/11/188,298  
; PRIOR FILING DATE: 2005-07-22  
; PRIOR APPLICATION NUMBER: 60/592,978  
; PRIOR FILING DATE: 2004-07-31  
; NUMBER OF SEQ ID NOS: 22569  
; SEQ ID NO 21490  
; LENGTH: 358  
; TYPE: PRT

Query Match 65.9%; Score 29; DB 9; Length 358;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

; ORGANISM: Staphylococcus aureus subsp. aureus Mu50  
US-11-188-298-21450

Query Match 65.9%; Score 29; DB 11; Length 358;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVP 6  
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Db 293 ELTEVP 298

RESULT 42  
US-11-188-298-16138  
; Sequence 16138, Application US/11188298  
; Publication No. US20060075522A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
; FILE REFERENCE: 38-21(53452)B  
; CURRENT APPLICATION NUMBER: US/11/188,298  
; CURRENT FILING DATE: 2005-07-22  
; PRIOR APPLICATION NUMBER: 60/592,978  
; PRIOR FILING DATE: 2004-07-31  
; NUMBER OF SEQ ID NOS: 22569  
; SEQ ID NO 16138  
; LENGTH: 416  
; TYPE: PRT  
; ORGANISM: Thermobifida fusca  
US-11-188-298-16138

Query Match 65.9%; Score 29; DB 11; Length 416;  
Best Local Similarity 100.0%; Pred. No. 2.6e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVP 6  
|:|||||  
Db 352 ELTEVP 357

RESULT 43  
US-10-510-386-98  
; Sequence 98, Application US/10510386  
; Publication No. US20050244922A1  
; GENERAL INFORMATION:  
; APPLICANT: Andersen, Jens Tonne  
; APPLICANT: Clausen, Ib Groth  
; APPLICANT: Jorgensen, Sreen Troels  
; APPLICANT: Olsen, Peter Bjarke  
; APPLICANT: Rasmussen, Michael Dolberg  
; TITLE OF INVENTION: Improved Bacillus Host Cell  
; FILE REFERENCE: 10294.204-US  
; CURRENT APPLICATION NUMBER: US/10/510,386  
; CURRENT FILING DATE: 2004-10-04  
; NUMBER OF SEQ ID NOS: 248  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 98  
; LENGTH: 475  
; TYPE: PRT  
; ORGANISM: Bacillus licheniformis  
US-10-510-386-98

Query Match 65.9%; Score 29; DB 9; Length 475;  
Best Local Similarity 66.7%; Pred. No. 3e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 ELTEVP 9  
|:|||||  
Db 90 ELKTFEWA 98

RESULT 44  
US-11-188-298-18460

; Sequence 18460, Application US/11188298  
; Publication No. US20060075522A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
; FILE REFERENCE: 38-21(53452)B  
; CURRENT APPLICATION NUMBER: US/11/188,298  
; CURRENT FILING DATE: 2005-07-22  
; PRIOR APPLICATION NUMBER: 60/592,978  
; PRIOR FILING DATE: 2004-07-31  
; NUMBER OF SEQ ID NOS: 22569  
; SEQ ID NO 18460  
; LENGTH: 492  
; TYPE: PRT  
; ORGANISM: Neurospora crassa  
US-11-188-298-18460

Query Match 65.9%; Score 29; DB 11; Length 492;  
Best Local Similarity 71.4%; Pred. No. 3.1e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVP 7  
|:|||||  
Db 332 ELTKIFE 338

RESULT 45  
US-10-530-340-12  
; Sequence 12, Application US/10530340  
; Publication No. US2006009379A1  
; GENERAL INFORMATION:  
; APPLICANT: THE GOVERNMENT OF THE UNITED STATES OF AMERICA AS  
; APPLICANT: REPRESENTED BY THE SECRETARY OF THE DEPARTMENT OF HEALTH AND  
; APPLICANT: HUMAN SERVICES  
; APPLICANT: Teal, Robert Y. L.  
; APPLICANT: McKay, Ronald D. G.  
; TITLE OF INVENTION: METHODS FOR CONTROLLING PROLIFERATION OF CELLS  
; FILE REFERENCE: 4239-66642  
; CURRENT APPLICATION NUMBER: US/10/530,340  
; CURRENT FILING DATE: 2005-04-01  
; PRIOR APPLICATION NUMBER: PCT/US03/31321  
; PRIOR FILING DATE: 2003-10-01  
; PRIOR APPLICATION NUMBER: 60/442,005  
; PRIOR FILING DATE: 2003-01-22  
; PRIOR APPLICATION NUMBER: 60/415,867  
; PRIOR FILING DATE: 2002-10-02  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 12  
; LENGTH: 576  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: NS2  
US-10-530-340-12

Query Match 65.9%; Score 29; DB 9; Length 576;  
Best Local Similarity 71.4%; Pred. No. 3.7e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVP 7  
|:|||||  
Db 413 EMTEVPD 419

RESULT 46  
US-11-188-298-13299  
; Sequence 13299, Application US/11188298  
; Publication No. US20060075522A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
; FILE REFERENCE: 38-21(53452)B

CURRENT APPLICATION NUMBER: US/11/188,298  
CURRENT FILING DATE: 2005-07-22  
PRIOR APPLICATION NUMBER: 60/592,978  
PRIOR FILING DATE: 2004-07-31  
NUMBER OF SEQ ID NOS: 22569  
SEQ ID NO 13299  
LENGTH: 637  
TYPE: PRT  
ORGANISM: Rickettsia sibirica  
US-11-188-298-13299

Query Match 65.9%; Score 29; DB 11; Length 637;  
Best Local Similarity 62.5%; Pred. No. 4.1e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELTEVEEF 8  
Db 166 ELTEIVDF 173

RESULT 47  
US-11-188-298-14583

Sequence 14583, Application US/11188298  
Publication No. US20060075522A1  
GENERAL INFORMATION:  
APPLICANT: Abad, Mark S. et al.  
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
FILE REFERENCE: 38-21(53452)B  
CURRENT APPLICATION NUMBER: US/11/188,298  
CURRENT FILING DATE: 2005-07-22  
PRIOR APPLICATION NUMBER: 60/592,978  
PRIOR FILING DATE: 2004-07-31  
NUMBER OF SEQ ID NOS: 22569  
SEQ ID NO 14583  
LENGTH: 637  
TYPE: PRT  
ORGANISM: Rickettsia rickettsii  
US-11-188-298-14583

Query Match 65.9%; Score 29; DB 11; Length 637;  
Best Local Similarity 62.5%; Pred. No. 4.1e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELTEVEEF 8  
Db 166 ELTEIVDF 173

RESULT 48  
US-11-072-512-2651

Sequence 2651, Application US/11072512  
Publication No. US20060029945A1  
GENERAL INFORMATION:  
APPLICANT: ISOGAI, TAKAO  
APPLICANT: SUGIYAMA, TOMOYASU  
APPLICANT: OTSUKI, TETSUJI  
APPLICANT: WAKAMATSU, AI  
APPLICANT: SATO, HIROYUKI  
APPLICANT: ISHII, SHIZUKO  
APPLICANT: YAMAMOTO, JUN-ICHI  
APPLICANT: ISONO, YUUKO  
APPLICANT: HIO, YURI  
APPLICANT: OTSUKA, KAORU  
APPLICANT: NAGAI, KEIICHI  
APPLICANT: IRIE, RYOTARO  
APPLICANT: TAMECHIKA, ICHIRO  
APPLICANT: SEKI, NAOHICO  
APPLICANT: YOSHIKAWA, TSUTOMU  
APPLICANT: OTSUKA, MOTOKU  
APPLICANT: NAGAHARI, KENJI  
APPLICANT: MASUHO, YASUHIKO  
TITLE OF INVENTION: Novel full length cDNA  
FILE REFERENCE: 084335-0191

CURRENT APPLICATION NUMBER: US/11/072,512  
CURRENT FILING DATE: 2005-03-07  
PRIOR APPLICATION NUMBER: US 60/350,978  
PRIOR FILING DATE: 2002-01-25  
PRIOR APPLICATION NUMBER: JP 2001-379298  
PRIOR FILING DATE: 2001-11-05  
NUMBER OF SEQ ID NOS: 4096  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 2651  
LENGTH: 687  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-11-072-512-2651

Query Match 65.9%; Score 29; DB 11; Length 687;  
Best Local Similarity 77.8%; Pred. No. 4.5e+02;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 ELTEVEEFA 9  
Db 385 ELKEVFEDA 393

RESULT 49

US-10-506-454-111  
Sequence 111, Application US/10506454  
Publication No. US20060068386A1  
GENERAL INFORMATION:  
APPLICANT: Slesarev, Alexi I  
APPLICANT: Mezhevaeva, Katja V  
APPLICANT: Polushin, Nikolai N  
APPLICANT: Shcherbina, Olga V  
APPLICANT: Shakhova, Vera V  
APPLICANT: Malykh, Andrei G  
APPLICANT: Kozayavkin, Sergei A  
TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile  
TITLE OF INVENTION: Methanopyrus kandleri AV19 and Monophyly of Archaeal Methanogens  
TITLE OF INVENTION: and Methods of Use Thereof  
FILE REFERENCE: FID001  
CURRENT APPLICATION NUMBER: US/10/506,454  
CURRENT FILING DATE: 2004-08-31  
PRIOR APPLICATION NUMBER: PCT/US03/06664  
PRIOR FILING DATE: 2003-03-04  
PRIOR APPLICATION NUMBER: 60/361,742  
PRIOR FILING DATE: 2002-03-04  
NUMBER OF SEQ ID NOS: 1722  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO 111  
LENGTH: 711  
TYPE: PRT  
ORGANISM: Methanopyrus kandleri  
US-10-506-454-111

Query Match 65.9%; Score 29; DB 9; Length 711;  
Best Local Similarity 75.0%; Pred. No. 4.7e+02;  
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 ELTEVEEF 8  
Db 95 ELTNVIEF 102

RESULT 50

US-10-204-639-60  
Sequence 60, Application US/10204639  
Publication No. US20060063152A1  
GENERAL INFORMATION:  
APPLICANT: Osamu Ohara  
APPLICANT: Takahito Nagase  
APPLICANT: Daisuke Nakajima  
TITLE OF INVENTION: NOVEL GENE AND PROTEIN ENCODED BY THE GENE  
FILE REFERENCE: PH-1416-PCT  
CURRENT APPLICATION NUMBER: US/10/204,639

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; CURRENT FILING DATE: 2002-08-22
; PRIOR APPLICATION NUMBER: JP 2000-389742
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: JP 2001-095524
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: JP 2001-127066
; PRIOR FILING DATE: 2001-04-25
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 60
; LENGTH: 1179
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-204-639-60
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Query Match          65.9%; Score 29; DB 9; Length 1179;
Best Local Similarity 85.7%; Pred. No. 8.3e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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OY      1 ELTEVFE 7
          ||| |||
Db      960 ELTNVFE 966
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Job time : 20.4 secs
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OM protein - protein search, using sw model

Run on: May 5, 2006, 05:36:41 ; Search time 20.9 Seconds  
(without alignments)  
35.602 Million cell updates/sec

Title: US-08-170-344-27  
Perfect score: 45  
Sequence: 1 FAFKDLFV 9

Scoring table: BIOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

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2: /cgn2\_6/ptodata/1/1aa/6-COMB.pep:\*  
3: /cgn2\_6/ptodata/1/1aa/H-COMB.pep:\*  
4: /cgn2\_6/ptodata/1/1aa/PCITUS-COMB.pep:\*  
5: /cgn2\_6/ptodata/1/1aa/RE-COMB.pep:\*  
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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	45	100.0	158	1	US-08-247-904B-10 Sequence 10, Appl
2	45	100.0	158	2	US-08-767-942A-19 Sequence 19, Appl
3	45	100.0	271	1	US-08-117-083-14 Sequence 11, Appl
4	45	100.0	278	1	US-09-485-885-21 Sequence 21, Appl
5	45	100.0	383	2	US-09-485-885-23 Sequence 23, Appl
6	35	77.8	329	2	US-09-328-352-6272 Sequence 6272, Ap
7	34	75.6	351	2	US-09-352-991A-32396 Sequence 32396, A
8	34	75.6	669	2	US-09-345-473E-27 Sequence 27, Appl
9	34	75.6	669	2	US-09-862-027-27 Sequence 27, Appl
10	33	73.3	9	1	US-08-787-547-103 Sequence 103, App
11	33	73.3	9	2	US-08-197-484-67 Sequence 67, Appl
12	33	73.3	2	4	PCT-US95-02121-67 Sequence 67, Appl
13	33	73.3	2	2	US-09-980-523A-6 Sequence 276, App
14	33	73.3	23	2	US-09-601-729-276 Sequence 18, Appl
15	33	73.3	151	2	US-09-701-080C-18 Sequence 2, Appl1
16	33	73.3	158	2	US-09-480-523A-2 Sequence 2, Appl1
17	33	73.3	162	1	US-08-316-239B-3 Sequence 4, Appl1
18	33	73.3	162	1	US-08-316-239B-4 Sequence 4, Appl1
19	33	73.3	172	2	US-08-860-165-14 Sequence 14, Appl
20	33	73.3	172	2	US-09-359-382-14 Sequence 14, Appl
21	33	73.3	243	2	US-09-462-993-1 Sequence 1, Appl1
22	33	73.3	266	2	US-08-660-165-10 Sequence 10, Appl
23	33	73.3	266	2	US-09-359-382-10 Sequence 10, Appl
24	33	73.3	266	2	US-09-367-309A-1 Sequence 1, Appl1
25	33	73.3	273	2	US-09-485-885-4 Sequence 4, Appl1
26	33	73.3	292	2	US-09-485-885-10 Sequence 10, Appl
27	33	73.3	371	2	US-09-485-885-6 Sequence 6, Appl1

28	33	73.3	390	2	US-09-485-885-14 Sequence 14, Appl
29	32	71.1	99	2	US-09-270-767-60100 Sequence 60100, A
30	32	71.1	175	2	US-09-248-796A-14111 Sequence 14111, A
31	32	71.1	182	1	US-08-117-083-10 Sequence 10, Appl
32	32	71.1	333	2	US-09-562-737-6 Sequence 6, Appl1
33	32	71.1	333	2	US-09-562-737-9 Sequence 9, Appl1
34	32	71.1	401	2	US-09-270-767-44648 Sequence 44648, A
35	32	71.1	502	2	US-09-328-352-6968 Sequence 6968, Ap
36	31	68.9	126	2	US-09-107-532A-7133 Sequence 2388, Ap
37	31	68.9	233	2	US-09-605-703B-2388 Sequence 615, App
38	31	68.9	235	2	US-09-830-230A-616 Sequence 615, App
39	31	68.9	274	2	US-09-830-230A-615 Sequence 17597, A
40	31	68.9	307	2	US-09-248-796A-17597 Sequence 4666, Ap
41	31	68.9	338	2	US-09-107-433-4666 Sequence 4666, Ap
42	31	68.9	370	2	US-09-270-767-45247 Sequence 4653, Ap
43	31	68.9	440	2	US-09-583-110-4693 Sequence 160, App
44	31	68.9	556	2	US-09-991-181-160 Sequence 160, App
45	31	68.9	556	2	US-09-990-444-160 Sequence 160, App
46	31	68.9	556	2	US-09-997-333-160 Sequence 160, App
47	31	68.9	556	2	US-09-982-598-160 Sequence 15502, A
48	31	68.9	560	2	US-09-902-540-15502 Sequence 11325, A
49	31	68.9	574	2	US-09-949-016-11325 Sequence 114, App
50	30	66.7	62	1	US-08-464-531-114 Sequence 114, App
51	30	66.7	62	1	US-08-461-598-114 Sequence 114, App
52	30	66.7	62	2	US-08-332-137-114 Sequence 25319, A
53	30	66.7	67	2	US-09-248-796A-25319 Sequence 15528, A
54	30	66.7	106	2	US-09-248-796A-15528 Sequence 466, App
55	30	66.7	135	2	US-08-905-223-464 Sequence 42, Appl
56	30	66.7	146	2	US-09-893-737-42 Sequence 4920, Ap
57	30	66.7	147	2	US-09-107-433-4920 Sequence 5731, App
58	30	66.7	197	2	US-09-270-767-59436 Sequence 59436, A
59	30	66.7	212	2	US-09-270-767-58138 Sequence 58138, A
60	30	66.7	234	2	US-09-248-796A-19245 Sequence 19245, A
61	30	66.7	268	2	US-09-134-000C-6035 Sequence 6035, Ap
62	30	66.7	271	2	US-09-949-016-10678 Sequence 10678, A
63	30	66.7	295	2	US-09-949-016-10678 Sequence 15167, A
64	30	66.7	305	2	US-09-902-540-15167 Sequence 44026, A
65	30	66.7	318	2	US-09-270-767-44026 Sequence 3319, Ap
66	30	66.7	340	2	US-10-104-047-3319 Sequence 6727, Ap
67	30	66.7	354	2	US-09-949-016-6727 Sequence 5712, Ap
68	30	66.7	399	2	US-09-134-000C-5712 Sequence 796, App
69	30	66.7	431	2	US-09-198-452A-796 Sequence 11197, A
70	30	66.7	470	2	US-09-949-016-11197 Sequence 6439, Ap
71	30	66.7	496	2	US-09-543-681A-6439 Sequence 4848, Ap
72	30	66.7	538	2	US-09-583-110-4848 Sequence 748, App
73	30	66.7	543	2	US-09-438-185A-748 Sequence 1184, A
74	30	66.7	601	2	US-09-902-540-11184 Sequence 12, Appl
75	30	66.7	779	1	US-08-375-134-12 Sequence 5, Appl1
76	30	66.7	779	4	PCT-US95-15663-12 Sequence 1, Appl1
77	30	66.7	833	2	US-09-886-319A-5 Sequence 11, Appl
78	30	66.7	859	2	US-09-149-934-11 Sequence 9916, Ap
79	30	66.7	87	2	US-09-394-272-11 Sequence 9229, Ap
80	29	64.4	87	2	US-09-902-540-9916 Sequence 4389, Ap
81	29	64.4	141	2	US-09-949-016-9929 Sequence 15899, A
82	29	64.4	184	2	US-09-248-796A-15899 Sequence 36040, A
83	29	64.4	205	2	US-09-270-767-36040 Sequence 5157, A
84	29	64.4	221	2	US-09-270-767-51257 Sequence 6200, Ap
85	29	64.4	221	2	US-09-134-000C-6200 Sequence 53, Appl
86	29	64.4	234	2	US-09-482-918-53 Sequence 53, Appl
87	29	64.4	273	2	US-09-224-681-53 Sequence 53, Appl
88	29	64.4	273	2	US-09-635-251-53 Sequence 53, Appl
89	29	64.4	273	2	US-09-224-681-53 Sequence 53, Appl
90	29	64.4	273	2	US-09-224-681-53 Sequence 53, Appl
91	29	64.4	274	2	US-09-604-325A-53 Sequence 53, Appl
92	29	64.4	274	2	US-08-336-728A-53 Sequence 13132, A
93	29	64.4	306	2	US-09-902-540-13132 Sequence 4, Appl1
94	29	64.4	333	2	US-09-562-737-4 Sequence 378, App
95	29	64.4	333	2	US-08-311-731A-778 Sequence 15046, A
96	29	64.4	355	2	US-09-902-540-15046 Sequence 2, Appl1
97	29	64.4	356	2	US-09-235-103-2 Sequence 4, Appl1
98	29	64.4	356	2	US-09-235-103-4 Sequence 13, Appl
99	29	64.4	356	2	US-09-235-103-13 Sequence 7438, Ap
100	29	64.4	382	2	US-09-328-352-7438 Sequence 7438, Ap

101	29	64.4	537	2	US-09-489-039A-10655	Sequence 10655, A	174	28	62.2	350	2	US-09-124-807-23	Sequence 23, Appl
102	29	64.4	610	2	US-09-248-796A-17030	Sequence 17030, A	175	28	62.2	354	1	US-07-868-353A-12	Sequence 11, Appl
103	29	64.4	622	2	US-09-303-381-2	Sequence 2, Appl1	176	28	62.2	354	1	US-07-868-353A-15	Sequence 15, Appl
104	29	64.4	623	1	US-08-734-925-2	Sequence 2, Appl1	177	28	62.2	354	1	US-08-407-804-21	Sequence 21, Appl
105	29	64.4	708	2	US-09-792-024-123	Sequence 123, App	178	28	62.2	354	2	US-08-407-804-24	Sequence 24, Appl
106	29	64.4	731	2	US-09-248-796A-18075	Sequence 18075, A	179	28	62.2	354	1	US-09-124-807-21	Sequence 21, Appl
107	29	64.4	735	2	US-09-115-704-2	Sequence 2, Appl1	180	28	62.2	354	2	US-09-124-807-24	Sequence 24, Appl
108	29	64.4	735	2	US-09-780-115-2	Sequence 2, Appl1	181	28	62.2	355	1	US-08-440-845D-25	Sequence 25, Appl
109	29	64.4	909	2	US-10-163-214-2	Sequence 2, Appl1	182	28	62.2	375	2	US-09-134-000C-4981	Sequence 4981, Ap
110	29	64.4	1003	2	US-09-949-016-10627	Sequence 10627, A	183	28	62.2	379	2	US-09-540-236-3216	Sequence 3216, Ap
111	29	64.4	1827	2	US-09-443-780C-14	Sequence 14, Appl	184	28	62.2	380	2	US-09-328-352-4497	Sequence 4497, Ap
112	29	64.4	1827	2	US-09-079-723-179	Sequence 179, Appl	185	28	62.2	383	2	US-09-270-767-42808	Sequence 42808, A
113	29	64.4	2270	2	US-09-581-909-3	Sequence 3, Appl1	186	28	62.2	404	2	US-09-328-352-6361	Sequence 6361, Ap
114	28	62.2	9	2	US-08-159-339A-246	Sequence 246, App	187	28	62.2	429	2	US-09-194-468A-45	Sequence 45, Appl
115	28	62.2	9	2	US-08-153-339A-564	Sequence 564, App	188	28	62.2	437	2	US-09-538-092-876	Sequence 876, App
116	28	62.2	14	1	US-07-909-122-4	Sequence 4, Appl1	189	28	62.2	440	2	US-09-603-208A-268	Sequence 268, App
117	28	62.2	20	1	US-08-934-915-161	Sequence 161, App	190	28	62.2	462	2	US-08-486-099-117	Sequence 117, App
118	28	62.2	63	2	US-09-328-352-4804	Sequence 4804, App	191	28	62.2	462	2	US-08-360-107A-1127	Sequence 1127, App
119	28	62.2	74	2	US-09-194-468A-19	Sequence 19, Appl	192	28	62.2	462	2	US-08-484-233B-117	Sequence 117, App
120	28	62.2	78	2	US-09-762-569-12	Sequence 12, Appl	193	28	62.2	462	2	US-08-919-597-117	Sequence 117, App
121	28	62.2	97	2	US-09-270-767-39202	Sequence 39202, A	194	28	62.2	462	2	US-08-475-668A-117	Sequence 117, App
122	28	62.2	97	2	US-09-270-767-54419	Sequence 54419, A	195	28	62.2	462	2	US-08-485-551A-117	Sequence 117, App
123	28	62.2	102	2	US-09-134-001C-5415	Sequence 5415, Ap	196	28	62.2	462	2	US-08-471-913A-117	Sequence 117, App
124	28	62.2	108	2	US-09-194-468A-20	Sequence 20, Appl	197	28	62.2	462	2	US-08-485-264A-117	Sequence 117, App
125	28	62.2	114	2	US-10-104-047-3819	Sequence 3819, App	198	28	62.2	462	2	US-08-474-349A-117	Sequence 117, App
126	28	62.2	123	2	US-09-270-767-39696	Sequence 39696, A	199	28	62.2	462	2	US-08-470-896-117	Sequence 117, App
127	28	62.2	123	2	US-09-270-767-54913	Sequence 54913, A	200	28	62.2	462	2	US-08-485-546A-117	Sequence 117, App
128	28	62.2	125	2	US-09-248-796A-18063	Sequence 18063, A	201	28	62.2	462	2	US-08-487-266A-117	Sequence 117, App
129	28	62.2	134	2	US-09-328-352-6236	Sequence 8236, Ap	202	28	62.2	462	2	US-08-484-741-117	Sequence 117, App
130	28	62.2	137	2	US-09-248-796A-18260	Sequence 18260, A	203	28	62.2	466	1	US-08-511-485-10	Sequence 10, Appl
131	28	62.2	170	2	US-09-248-796A-18532	Sequence 18532, A	204	28	62.2	466	2	US-09-212-971-10	Sequence 10, Appl
132	28	62.2	193	2	US-09-194-468A-18	Sequence 18, Appl	205	28	62.2	466	2	US-08-800-929A-10	Sequence 10, Appl
133	28	62.2	206	2	US-09-830-230A-294	Sequence 230, App	206	28	62.2	466	2	US-09-617-053A-10	Sequence 10, Appl
134	28	62.2	223	2	US-09-194-468A-17	Sequence 17, Appl	207	28	62.2	466	2	US-09-201-936-10	Sequence 10, Appl
135	28	62.2	242	2	US-09-949-016-9453	Sequence 9453, Ap	208	28	62.2	466	2	US-09-011-356-10	Sequence 10, Appl
136	28	62.2	249	2	US-09-270-767-41378	Sequence 41378, A	209	28	62.2	466	2	US-09-672-717-225	Sequence 225, App
137	28	62.2	249	2	US-09-270-767-56594	Sequence 56594, A	210	28	62.2	466	2	US-09-201-932-10	Sequence 10, Appl
138	28	62.2	250	2	US-09-830-230A-293	Sequence 293, App	211	28	62.2	466	2	US-09-270-767-43932	Sequence 43932, A
139	28	62.2	251	2	US-09-270-767-41495	Sequence 41495, A	212	28	62.2	556	1	US-08-505-377-1	Sequence 1, Appl1
140	28	62.2	269	2	US-09-311-021-56	Sequence 66, Appl	213	28	62.2	556	2	US-08-798-269-1	Sequence 1, Appl1
141	28	62.2	297	2	US-09-434-354-47	Sequence 47, Appl	214	28	62.2	556	2	US-09-055-120-1	Sequence 1, Appl1
142	28	62.2	297	2	US-09-709-785-47	Sequence 47, Appl	215	28	62.2	556	2	US-09-298-924-8	Sequence 8, Appl1
143	28	62.2	297	2	US-09-811-132-31	Sequence 31, Appl	216	28	62.2	561	2	US-09-328-352-6872	Sequence 6872, Ap
144	28	62.2	297	2	US-09-811-094-31	Sequence 31, Appl	217	28	62.2	568	2	US-09-911-909B-16	Sequence 16, Appl
145	28	62.2	297	2	US-09-185-904A-31	Sequence 31, Appl	218	28	62.2	569	2	US-09-248-796A-15541	Sequence 15541, A
146	28	62.2	297	2	US-09-809-827-91	Sequence 31, Appl	219	28	62.2	592	2	US-10-104-047-3371	Sequence 3371, Ap
147	28	62.2	297	2	US-09-809-889-91	Sequence 31, Appl	220	28	62.2	596	2	US-09-252-991A-22689	Sequence 22689, A
148	28	62.2	298	2	US-08-961-871-10	Sequence 48, Appl	221	28	62.2	614	4	PCT-US95-03236-21	Sequence 21, Appl
149	28	62.2	298	2	US-09-434-354-48	Sequence 48, Appl	222	28	62.2	616	2	US-08-637-670-28	Sequence 28, Appl
150	28	62.2	298	2	US-09-434-354-49	Sequence 49, Appl	223	28	62.2	631	2	US-08-448-489-17	Sequence 17, Appl
151	28	62.2	298	2	US-09-709-785-48	Sequence 48, Appl	224	28	62.2	631	2	US-09-689-730-17	Sequence 17, Appl
152	28	62.2	298	2	US-09-709-785-49	Sequence 49, Appl	225	28	62.2	660	2	US-09-449-016-7937	Sequence 18, Appl
153	28	62.2	298	2	US-09-811-132-32	Sequence 32, Appl	226	28	62.2	660	2	US-09-521-220-18	Sequence 18, Appl
154	28	62.2	298	2	US-09-811-132-33	Sequence 32, Appl	227	28	62.2	660	2	US-09-391-104-19	Sequence 19, Appl
155	28	62.2	298	2	US-09-811-094-32	Sequence 32, Appl	228	28	62.2	660	2	US-09-917-254-89	Sequence 89, Appl
156	28	62.2	298	2	US-09-811-094-33	Sequence 32, Appl	229	28	62.2	660	2	US-09-949-016-6512	Sequence 6512, Ap
157	28	62.2	298	2	US-09-185-904A-32	Sequence 32, Appl	230	28	62.2	660	2	US-09-949-016-7937	Sequence 7937, Ap
158	28	62.2	298	2	US-09-185-904A-33	Sequence 32, Appl	231	28	62.2	660	2	US-10-153-185-14	Sequence 14, Appl
159	28	62.2	298	2	US-09-809-827-32	Sequence 32, Appl	232	28	62.2	710	2	US-09-079-812B-2	Sequence 2, Appl1
160	28	62.2	298	2	US-09-809-827-33	Sequence 32, Appl	233	28	62.2	746	2	US-09-710-279-652	Sequence 652, App
161	28	62.2	298	2	US-09-809-889-93	Sequence 33, Appl	234	28	62.2	759	2	US-10-104-047-2770	Sequence 2770, Ap
162	28	62.2	298	2	US-09-809-889-93	Sequence 33, Appl	235	28	62.2	765	2	US-09-762-569-10	Sequence 10, Appl
163	28	62.2	304	2	US-09-949-016-11339	Sequence 11339, A	236	28	62.2	778	2	US-09-134-001C-3368	Sequence 3688, Ap
164	28	62.2	314	2	US-09-248-796A-19386	Sequence 19386, A	237	28	62.2	849	2	US-09-157-257-4	Sequence 4, Appl1
165	28	62.2	333	2	US-09-230-637-30	Sequence 30, Appl	238	28	62.2	930	2	US-09-438-1452A-470	Sequence 470, App
166	28	62.2	333	2	US-09-453-195A-2	Sequence 2, Appl1	239	28	62.2	938	2	US-09-198-458A-448	Sequence 448, App
167	28	62.2	333	2	US-09-562-737-1	Sequence 1, Appl1	240	28	62.2	966	2	US-09-248-796A-15358	Sequence 15358, A
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169	28	62.2	333	2	US-09-517-974-2	Sequence 2, Appl1	242	28	62.2	1069	2	US-09-902-540-11566	Sequence 11566, A
170	28	62.2	333	2	US-09-664-958-1	Sequence 1, Appl1	243	28	62.2	1088	1	US-08-742-026-2	Sequence 23, Appl1
171	28	62.2	333	2	US-09-664-958-14	Sequence 14, Appl	244	28	62.2	1088	1	US-08-742-026-23	Sequence 23, Appl1
172	28	62.2	350	1	US-07-868-353A-14	Sequence 14, Appl	245	28	62.2	1242	2	US-09-540-236-2552	Sequence 2522, Ap
173	28	62.2	350	1	US-08-407-804-23	Sequence 23, Appl	246	28	62.2	1268	1	US-07-727-814B-2	Sequence 2, Appl1

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248	28	62.2	1964	1	US-08-790-912-3	Sequence 3, Appli	321	27	60.0	274	2	US-09-133-352B-2	Sequence 2, Appli
249	28	62.2	1965	2	US-09-583-110-3829	Sequence 3829, Ap	322	27	60.0	276	2	US-09-248-796A-24171	Sequence 24171, A
250	28	62.2	1972	2	US-09-107-413-3251	Sequence 3251, Ap	323	27	60.0	288	2	US-10-144-929-141	Sequence 141, App
251	28	62.2	2052	1	US-08-790-912-2	Sequence 2, Appli	324	27	60.0	289	2	US-09-653-274-11	Sequence 11, Appli
252	28	62.2	2777	2	US-09-543-681A-6124	Sequence 6124, Ap	325	27	60.0	289	2	US-10-461-791-11	Sequence 11, Appli
253	27.5	61.1	2994	2	US-09-134-000C-4495	Sequence 4495, Ap	326	27	60.0	295	2	US-09-248-796A-14635	Sequence 14635, A
254	27	60.0	32	2	US-09-638-524A-3	Sequence 3, Appli	327	27	60.0	306	2	US-09-674-529B-2	Sequence 2, Appli
255	27	60.0	61	2	US-09-107-532A-5956	Sequence 5956, Ap	328	27	60.0	306	2	US-09-674-529B-4	Sequence 4, Appli
256	27	60.0	61	2	US-09-583-110-4730	Sequence 4730, Ap	329	27	60.0	306	2	US-09-270-767-43622	Sequence 43622, A
257	27	60.0	62	1	US-08-464-531-113	Sequence 113, App	330	27	60.0	309	2	US-09-674-529B-12	Sequence 12, Appli
258	27	60.0	62	1	US-08-461-536-113	Sequence 113, App	331	27	60.0	311	2	US-09-674-529B-12	Sequence 311, App
259	27	60.0	62	1	US-08-322-137-113	Sequence 113, App	332	27	60.0	311	2	US-09-438-185A-316	Sequence 316, App
260	27	60.0	66	2	US-09-543-681A-4914	Sequence 4914, Ap	333	27	60.0	315	2	US-09-674-529B-6	Sequence 6, Appli
261	27	60.0	70	2	US-09-270-767-40647	Sequence 40647, A	334	27	60.0	315	2	US-09-487-558B-252	Sequence 252, App
262	27	60.0	70	2	US-09-270-767-55863	Sequence 55863, A	335	27	60.0	318	2	US-09-100-664A-10	Sequence 10, Appli
263	27	60.0	76	2	US-09-205-258-787	Sequence 787, App	336	27	60.0	319	2	US-09-335-983-10	Sequence 10, Appli
264	27	60.0	76	2	US-09-489-039A-9194	Sequence 9194, Ap	337	27	60.0	319	2	US-09-553-867A-10	Sequence 10, Appli
265	27	60.0	76	2	US-10-004-860-787	Sequence 787, App	338	27	60.0	319	2	US-09-553-867A-10	Sequence 10, Appli
266	27	60.0	91	2	US-09-270-767-56883	Sequence 56883, A	339	27	60.0	319	2	US-09-294-894-29	Sequence 29, Appli
267	27	60.0	91	2	US-09-543-681A-4361	Sequence 4361, Ap	340	27	60.0	327	2	US-09-734-237B-50	Sequence 50, Appli
268	27	60.0	103	2	US-09-248-796A-23143	Sequence 23143, A	341	27	60.0	328	2	US-09-734-237B-52	Sequence 52, Appli
269	27	60.0	111	2	US-09-248-796A-23143	Sequence 23143, A	342	27	60.0	346	2	US-09-270-767-41645	Sequence 41645, A
270	27	60.0	120	2	US-10-144-929-233	Sequence 233, App	343	27	60.0	359	1	US-09-092-770-6	Sequence 6, Appli
271	27	60.0	122	2	US-09-270-767-559603	Sequence 559603, A	344	27	60.0	359	2	US-09-222-851-6	Sequence 6, Appli
272	27	60.0	126	2	US-09-710-279-180	Sequence 180, App	345	27	60.0	359	2	US-10-265-062-6	Sequence 3, Appli
273	27	60.0	130	2	US-09-248-796A-27972	Sequence 27972, A	346	27	60.0	361	2	US-09-198-484-3	Sequence 66, Appli
274	27	60.0	132	2	US-09-198-452A-528	Sequence 528, App	347	27	60.0	365	2	US-09-828-995B-66	Sequence 66, Appli
275	27	60.0	132	2	US-09-270-767-33560	Sequence 33560, A	348	27	60.0	370	2	US-09-252-991A-11152	Sequence 11152, A
276	27	60.0	132	2	US-09-270-767-48777	Sequence 48777, A	349	27	60.0	372	1	US-08-837-953-9	Sequence 9, Appli
277	27	60.0	143	2	US-09-248-796A-16525	Sequence 16525, A	350	27	60.0	386	2	US-09-828-995B-61	Sequence 61, Appli
278	27	60.0	146	2	US-09-732-210-97	Sequence 97, Appli	351	27	60.0	388	2	US-09-308-003-16	Sequence 16, Appli
279	27	60.0	146	2	US-09-732-210-301	Sequence 301, Appli	352	27	60.0	395	2	US-09-949-070-4	Sequence 11560, A
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281	27	60.0	153	2	US-09-732-210-278	Sequence 278, App	354	27	60.0	403	2	US-09-223-851-4	Sequence 4, Appli
282	27	60.0	156	2	US-09-770-767-48249	Sequence 48249, A	355	27	60.0	403	2	US-09-223-851-4	Sequence 4, Appli
283	27	60.0	157	2	US-09-770-767-33032	Sequence 33032, A	356	27	60.0	404	1	US-10-265-062-4	Sequence 3, Appli
284	27	60.0	162	2	US-09-489-847-160	Sequence 160, App	357	27	60.0	404	2	US-09-092-770-3	Sequence 3, Appli
285	27	60.0	165	2	US-09-252-991A-29666	Sequence 29666, A	358	27	60.0	404	2	US-10-226-062-3	Sequence 3, Appli
286	27	60.0	168	2	US-09-107-532A-6863	Sequence 6863, Ap	359	27	60.0	405	2	US-09-071-035-4	Sequence 4, Appli
287	27	60.0	171	2	US-09-949-016-11245	Sequence 11245, A	360	27	60.0	405	2	US-09-949-016-8235	Sequence 8235, Ap
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291	27	60.0	194	2	US-08-671-548C-26	Sequence 26, Appli	364	27	60.0	414	2	US-10-119-600-6	Sequence 6, Appli
292	27	60.0	194	2	US-08-284-667A-26	Sequence 26, Appli	365	27	60.0	414	2	US-10-119-600-6	Sequence 6, Appli
293	27	60.0	205	1	US-08-133-979A-4	Sequence 4, Appli	366	27	60.0	418	2	US-09-828-313-31	Sequence 31, Appli
294	27	60.0	205	1	US-08-436-890-4	Sequence 4, Appli	367	27	60.0	418	2	US-09-949-016-6933	Sequence 6933, Ap
295	27	60.0	205	1	US-08-451-213-4	Sequence 4, Appli	368	27	60.0	420	2	US-09-248-796A-23880	Sequence 23880, A
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297	27	60.0	207	2	US-09-489-847-320	Sequence 320, App	370	27	60.0	421	2	US-09-543-681A-7076	Sequence 7076, Ap
298	27	60.0	207	2	US-09-438-185A-832	Sequence 832, App	371	27	60.0	426	2	US-09-071-035-2	Sequence 2, Appli
299	27	60.0	212	1	US-08-158-353-4	Sequence 4, Appli	372	27	60.0	426	2	US-10-206-576-2	Sequence 2, Appli
300	27	60.0	212	2	US-09-196-293-11	Sequence 11, Appli	373	27	60.0	441	2	US-09-583-110-3763	Sequence 3763, App
301	27	60.0	212	2	US-08-209-603B-11	Sequence 11, Appli	374	27	60.0	442	2	US-09-107-433-4820	Sequence 4820, Ap
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303	27	60.0	212	2	US-09-711-546-11	Sequence 11, Appli	376	27	60.0	447	2	US-09-134-000C-5071	Sequence 5071, Ap
304	27	60.0	212	2	US-09-974-992B-7	Sequence 7, Appli	377	27	60.0	459	2	US-09-540-236-2942	Sequence 2942, Ap
305	27	60.0	212	2	US-10-289-795-11	Sequence 11, Appli	378	27	60.0	463	2	US-09-949-016-11668	Sequence 11668, A
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308	27	60.0	224	2	US-09-543-681A-6654	Sequence 6654, Ap	381	27	60.0	484	2	US-09-828-313-32	Sequence 32, Appli
309	27	60.0	240	2	US-09-248-796A-17703	Sequence 17703, A	382	27	60.0	492	2	US-09-949-016-10447	Sequence 10447, A
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311	27	60.0	254	2	US-09-133-352B-9	Sequence 9, Appli	384	27	60.0	492	2	US-10-020-445A-7	Sequence 7, Appli
312	27	60.0	255	2	US-09-543-681A-7716	Sequence 7716, Ap	385	27	60.0	494	2	US-09-902-540-16588	Sequence 16588, A
313	27	60.0	255	2	US-09-828-995B-58	Sequence 58, Appli	386	27	60.0	495	2	US-09-157-257-8	Sequence 8, Appli
314	27	60.0	271	2	US-08-482-918-52	Sequence 52, Appli	387	27	60.0	501	2	US-08-627-907A-4	Sequence 4, Appli
315	27	60.0	271	2	US-09-224-681-52	Sequence 52, Appli	388	27	60.0	505	2	US-09-248-796A-17202	Sequence 17202, A
316	27	60.0	271	2	US-09-635-251-52	Sequence 52, Appli	389	27	60.0	510	2	US-09-248-796A-18264	Sequence 18264, A
317	27	60.0	271	2	US-09-224-683-52	Sequence 52, Appli	390	27	60.0	515	2	US-09-157-257-6	Sequence 6, Appli
318	27	60.0	271	2	US-09-604-325A-52	Sequence 52, Appli	391	27	60.0	539	2	US-09-248-796A-20078	Sequence 20078, A
319	27	60.0	274	2	US-08-336-728A-52	Sequence 52, Appli	392	27	60.0	553	2		

393	27	60.0	559	2	US-09-252-991A-32216	Sequence 32216, A	466	26	57.8	179	2	US-09-107-532A-3901	Sequence 3901, Ap
394	27	60.0	570	2	US-09-949-016-6071	Sequence 6071, Ap	467	26	57.8	181	2	US-09-029-213B-22	Sequence 22, Appl
395	27	60.0	575	2	US-09-134-000C-4457	Sequence 4457, Ap	468	26	57.8	183	2	US-09-543-681A-6444	Sequence 6444, Ap
396	27	60.0	593	2	US-09-949-016-10192	Sequence 10192, A	469	26	57.8	184	2	US-09-489-039A-12490	Sequence 12490, A
397	27	60.0	611	2	US-09-370-807-2	Sequence 2, Appl1	470	26	57.8	184	2	US-09-540-236-3687	Sequence 3687, Ap
398	27	60.0	611	2	US-09-921-259-2	Sequence 2, Appl1	471	26	57.8	186	1	US-08-565-386-7	Sequence 7, Appl1
399	27	60.0	616	2	US-08-637-670-26	Sequence 26, Appl1	472	26	57.8	193	2	US-09-194-468A-24	Sequence 24, Appl
400	27	60.0	617	2	US-09-538-092-1349	Sequence 1349, Ap	473	26	57.8	195	2	US-09-198-452A-965	Sequence 965, Ap
401	27	60.0	634	2	US-09-248-796A-17852	Sequence 17852, A	474	26	57.8	197	2	US-09-134-000C-4925	Sequence 4925, Ap
402	27	60.0	638	2	US-09-902-540-1466	Sequence 1466, A	475	26	57.8	201	2	US-09-134-001C-5559	Sequence 5559, Ap
403	27	60.0	640	2	US-09-489-039A-1416	Sequence 1416, A	476	26	57.8	204	2	US-09-710-279-1544	Sequence 1544, Ap
404	27	60.0	696	2	US-09-270-767-44179	Sequence 44179, A	477	26	57.8	207	2	US-09-252-991A-24593	Sequence 24593, A
405	27	60.0	709	2	US-09-826-509-589	Sequence 589, Ap	478	26	57.8	207	2	US-08-811-519-19	Sequence 19, Appl
406	27	60.0	742	2	US-09-500-123-12	Sequence 12, Appl	479	26	57.8	212	2	US-09-270-767-32998	Sequence 32998, A
407	27	60.0	749	2	US-09-913-955A-1	Sequence 1, Appl1	480	26	57.8	220	2	US-09-915-789A-23	Sequence 23, Appl
408	27	60.0	780	1	US-09-018-760-4	Sequence 4, Appl1	481	26	57.8	228	2	US-08-513-974B-313	Sequence 313, Ap
409	27	60.0	797	2	US-09-134-000C-4997	Sequence 4997, Ap	482	26	57.8	228	2	US-08-513-974B-362	Sequence 362, Ap
410	27	60.0	811	2	US-09-500-123-9	Sequence 9, Appl1	483	26	57.8	228	2	US-08-776-971-130	Sequence 130, Ap
411	27	60.0	815	2	US-09-479-467A-6	Sequence 6, Appl1	484	26	57.8	228	2	US-09-194-468A-23	Sequence 23, Ap
412	27	60.0	815	2	US-09-655-160-6	Sequence 6, Appl1	485	26	57.8	228	2	US-09-576-390-130	Sequence 130, Ap
413	27	60.0	838	2	US-09-315-794-52	Sequence 52, Appl	486	26	57.8	228	2	US-09-716-147-130	Sequence 130, Ap
414	27	60.0	838	2	US-09-389-341-55	Sequence 52, Appl	487	26	57.8	231	2	US-09-248-796A-20475	Sequence 20475, A
415	27	60.0	838	2	US-09-564-805-229	Sequence 229, Ap	488	26	57.8	234	2	US-09-107-532A-6523	Sequence 6523, Ap
416	27	60.0	843	2	US-09-235-451-25	Sequence 25, Appl	489	26	57.8	236	2	US-09-364-425B-49	Sequence 49, Appl
417	27	60.0	843	2	US-09-978-303-25	Sequence 25, Appl	490	26	57.8	236	2	US-09-239-867-4	Sequence 4, Appl1
418	27	60.0	871	2	US-09-500-123-7	Sequence 7, Appl1	491	26	57.8	237	2	US-10-024-433-4	Sequence 4, Appl1
419	27	60.0	872	2	US-09-252-991A-31572	Sequence 31572, A	492	26	57.8	237	2	US-09-134-001C-3057	Sequence 3057, Ap
420	27	60.0	886	2	US-09-886-319A-6	Sequence 6, Appl1	493	26	57.8	240	2	US-09-107-532A-4655	Sequence 4655, Ap
421	27	60.0	898	2	US-09-583-110-3327	Sequence 3327, Ap	494	26	57.8	244	2	US-09-107-532A-3889	Sequence 3889, Ap
422	27	60.0	902	2	US-10-043-418-4	Sequence 4, Appl1	495	26	57.8	245	2	US-09-645-069-2	Sequence 2, Appl1
423	27	60.0	904	2	US-09-198-484-2	Sequence 2, Appl1	496	26	57.8	245	2	US-09-644-934-2	Sequence 11, Appl
424	27	60.0	904	2	US-09-949-002-352	Sequence 352, Ap	497	26	57.8	253	1	US-08-685-992-11	Sequence 11, Appl
425	27	60.0	910	2	US-09-949-002-483	Sequence 483, Ap	498	26	57.8	253	1	US-09-144-925-11	Sequence 11, Appl
426	27	60.0	916	2	US-09-107-433-2987	Sequence 2987, Ap	499	26	57.8	253	2	US-09-107-532A-5072	Sequence 5072, Ap
427	27	60.0	961	2	US-09-538-092-326	Sequence 326, Ap	500	26	57.8	253	2	US-09-489-039A-9280	Sequence 9280, Ap
428	27	60.0	961	2	US-09-540-236-2492	Sequence 2492, Ap	501	26	57.8	253	2	US-09-270-767-42144	Sequence 42144, A
429	27	60.0	1031	2	US-09-585-173B-40	Sequence 40, Appl	502	26	57.8	255	2	US-09-543-681A-4771	Sequence 4771, Ap
430	27	60.0	1051	2	US-09-252-991A-16999	Sequence 16999, A	503	26	57.8	255	2	US-09-710-279-914	Sequence 914, Ap
431	27	60.0	1185	2	US-09-585-173B-36	Sequence 36, Appl	504	26	57.8	255	2	US-09-107-532A-2620	Sequence 2620, Ap
432	27	60.0	1185	2	US-09-252-991A-18328	Sequence 18328, A	505	26	57.8	255	2	US-09-605-703B-244	Sequence 244, Ap
433	27	60.0	1210	2	US-09-309-572-7	Sequence 7, Appl1	506	26	57.8	260	2	US-09-134-001C-4872	Sequence 4872, Ap
434	27	60.0	2210	2	US-09-718-096-7	Sequence 58, Appl	507	26	57.8	260	2	US-09-270-767-46285	Sequence 46285, A
435	26	57.8	8	1	PCT-US94-01319-58	Sequence 58, Appl	508	26	57.8	263	2	US-09-248-796A-14765	Sequence 14765, A
436	26	57.8	8	1	PCT-US94-01319-58	Sequence 58, Appl	509	26	57.8	263	2	US-09-605-703B-242	Sequence 242, Ap
437	26	57.8	26	1	US-08-620-151-83	Sequence 83, Appl	510	26	57.8	271	2	US-09-107-532A-5071	Sequence 5071, Ap
438	26	57.8	29	1	US-08-968-542C-33	Sequence 33, Appl	511	26	57.8	274	2	US-08-482-918-51	Sequence 51, Appl
439	26	57.8	29	1	US-09-554-467A-33	Sequence 33, Appl	512	26	57.8	274	2	US-09-224-681-51	Sequence 51, Appl
440	26	57.8	39	2	US-09-238-303-13	Sequence 13, Appl	513	26	57.8	274	2	US-08-336-728A-51	Sequence 51, Appl
441	26	57.8	39	2	US-09-946-239-13	Sequence 13, Appl	514	26	57.8	274	2	US-09-635-251-51	Sequence 51, Appl
442	26	57.8	59	2	US-09-482-273-141	Sequence 141, Ap	515	26	57.8	274	2	US-09-224-683-51	Sequence 51, Appl
443	26	57.8	63	2	US-09-134-001C-3912	Sequence 3912, Ap	516	26	57.8	274	2	US-09-604-325A-51	Sequence 51, Appl
444	26	57.8	64	2	US-09-513-999C-6093	Sequence 6093, Ap	517	26	57.8	278	2	US-09-964-899-39	Sequence 39, Appl
445	26	57.8	65	2	US-09-621-976-4513	Sequence 4513, Ap	518	26	57.8	281	2	US-09-440-236-2349	Sequence 2349, Ap
446	26	57.8	69	2	US-09-134-001C-2932	Sequence 2932, Ap	519	26	57.8	282	2	US-10-037-417-80	Sequence 80, Appl
447	26	57.8	72	2	US-09-248-796A-24647	Sequence 24647, A	520	26	57.8	286	2	US-09-248-796A-14260	Sequence 14260, A
448	26	57.8	74	2	US-09-194-468A-25	Sequence 25, Appl	521	26	57.8	286	2	US-09-910-174B-8	Sequence 8, Appl1
449	26	57.8	79	2	US-09-270-767-46930	Sequence 46930, A	522	26	57.8	286	2	US-09-910-174B-32	Sequence 32, Appl
450	26	57.8	81	2	US-09-543-681A-6312	Sequence 6312, Ap	523	26	57.8	286	2	US-09-620-461-8	Sequence 8, Appl1
451	26	57.8	106	2	US-09-270-767-34726	Sequence 34726, A	524	26	57.8	286	2	US-09-451-291-1	Sequence 1, Appl1
452	26	57.8	106	2	US-09-270-767-49943	Sequence 49943, A	525	26	57.8	286	2	US-09-645-069-4	Sequence 4, Appl1
453	26	57.8	108	2	US-09-194-468A-26	Sequence 26, Appl	526	26	57.8	286	2	US-09-645-069-4	Sequence 4, Appl1
454	26	57.8	116	2	US-09-562-737-125	Sequence 125, Ap	527	26	57.8	286	2	US-09-545-069-23	Sequence 23, Appl
455	26	57.8	119	2	US-09-270-767-11364	Sequence 41364, A	528	26	57.8	286	2	US-09-915-789A-17	Sequence 17, Appl
456	26	57.8	119	2	US-09-270-767-56580	Sequence 56580, A	529	26	57.8	286	2	US-09-644-934-4	Sequence 4, Appl1
457	26	57.8	131	2	US-09-270-767-34521	Sequence 34521, A	530	26	57.8	286	2	US-09-644-934-11	Sequence 11, Appl
458	26	57.8	131	2	US-09-270-767-49738	Sequence 49738, A	531	26	57.8	286	2	US-09-134-001C-5277	Sequence 5277, Ap
459	26	57.8	145	2	US-09-513-989C-5725	Sequence 5725, Ap	532	26	57.8	286	2	US-10-163-214-10	Sequence 10, Appl
460	26	57.8	148	2	US-09-605-703B-1934	Sequence 1934, Ap	533	26	57.8	286	2	US-09-107-532A-5899	Sequence 5899, Ap
461	26	57.8	153	2	US-09-107-532A-5436	Sequence 5436, Ap	534	26	57.8	301	1	US-08-118-270-72	Sequence 72, Appl
462	26	57.8	162	2	US-09-248-796A-17986	Sequence 17986, A	535	26	57.8	301	4	PCT-US93-08528-72	Sequence 72, Appl
463	26	57.8	172	2	US-09-270-767-61856	Sequence 61856, A	536	26	57.8	313	2	US-09-489-039A-12108	Sequence 12108, A
464	26	57.8	179	1	US-08-531-525-38	Sequence 38, Appl	537	26	57.8	318	2	US-09-248-796A-18773	Sequence 18773, A
465	26	57.8	179	1	US-08-718-270A-38	Sequence 38, Appl	538	26	57.8	322	2	US-09-107-532A-5520	Sequence 5520, Ap



539	26	57.8	323	2	US-09-949-016-7924	Sequence 7924, Ap	612	26	57.8	445	2	US-09-065-027-2	Sequence 2, Appli
540	26	57.8	328	2	US-09-583-110-4999	Sequence 4999, Ap	613	26	57.8	445	2	US-09-065-027-4	Sequence 4, Appli
541	26	57.8	333	2	US-09-710-279-1960	Sequence 1960, Ap	614	26	57.8	445	2	US-09-065-027-6	Sequence 6, Appli
542	26	57.8	343	2	US-09-107-433-3112	Sequence 3112, Ap	615	26	57.8	445	2	US-09-708-332-13	Sequence 13, Appl
543	26	57.8	349	1	US-08-465-971B-2	Sequence 2, Appli	616	26	57.8	445	2	US-09-826-509-533	Sequence 533, App
544	26	57.8	349	2	US-09-170-496D-44	Sequence 44, Appli	617	26	57.8	451	2	US-09-252-991A-21506	Sequence 21506, A
545	26	57.8	349	2	US-09-170-496D-188	Sequence 188, App	618	26	57.8	455	1	US-08-349-025-4	Sequence 4, Appli
546	26	57.8	349	2	US-09-364-425B-15	Sequence 15, Appli	619	26	57.8	455	1	US-08-566-096A-4	Sequence 4, Appli
547	26	57.8	349	2	US-09-364-425B-51	Sequence 51, Appli	620	26	57.8	455	1	US-08-668-650B-4	Sequence 4, Appli
548	26	57.8	351	2	US-09-270-767-43939	Sequence 43939, A	621	26	57.8	455	2	US-09-200-673-4	Sequence 4, Appli
549	26	57.8	351	2	US-09-252-991A-11778	Sequence 31718, A	622	26	57.8	455	2	US-09-194-895-4	Sequence 7, Appli
550	26	57.8	358	1	US-08-465-971B-3	Sequence 3, Appli	623	26	57.8	455	2	US-10-013-846-7	Sequence 4, Appli
551	26	57.8	358	2	US-09-540-236-3099	Sequence 3099, Ap	624	26	57.8	455	2	US-09-447-907-4	Sequence 7, Appli
552	26	57.8	361	2	US-09-248-568-2	Sequence 2, Appli	625	26	57.8	455	2	US-09-962-646-4	Sequence 4, Appli
553	26	57.8	361	2	US-09-364-425B-19	Sequence 19, Appli	626	26	57.8	455	2	US-10-410-648-7	Sequence 7, Appli
554	26	57.8	361	2	US-09-364-425B-50	Sequence 50, Appli	627	26	57.8	456	1	US-08-349-025-2	Sequence 2, Appli
555	26	57.8	361	2	US-09-854-122-43	Sequence 43, Appli	628	26	57.8	456	1	US-08-566-096A-2	Sequence 2, Appli
556	26	57.8	361	2	US-09-949-016-11064	Sequence 11064, A	629	26	57.8	456	1	US-08-668-650B-14	Sequence 14, Appli
557	26	57.8	362	2	US-09-854-122-42	Sequence 42, Appli	630	26	57.8	456	1	US-09-200-673-2	Sequence 2, Appli
558	26	57.8	364	2	US-08-650-275-4	Sequence 4, Appli	631	26	57.8	456	2	US-09-194-895-2	Sequence 2, Appli
559	26	57.8	364	2	US-09-181-318-4	Sequence 4, Appli	632	26	57.8	456	2	US-09-194-895-14	Sequence 14, Appli
560	26	57.8	364	2	US-09-807-258-31	Sequence 31, Appli	633	26	57.8	456	2	US-09-447-907-2	Sequence 2, Appli
561	26	57.8	369	2	US-09-134-001C-5149	Sequence 5149, Ap	634	26	57.8	456	2	US-09-447-907-14	Sequence 14, Appli
562	26	57.8	376	2	US-09-107-532A-4779	Sequence 4779, Ap	635	26	57.8	456	2	US-09-962-646-2	Sequence 2, Appli
563	26	57.8	376	1	US-08-594-031-100	Sequence 100, App	636	26	57.8	456	4	PCT-US95-15446-2	Sequence 2, Appli
564	26	57.8	376	1	US-08-594-031-102	Sequence 102, App	637	26	57.8	456	4	PCT-US95-15446-4	Sequence 4, Appli
565	26	57.8	376	5	US-09-985-799-100	Sequence 102, App	638	26	57.8	456	4	US-09-328-352-6717	Sequence 6717, Ap
566	26	57.8	376	5	US-09-985-799-102	Sequence 102, App	639	26	57.8	465	2	US-09-065-027-8	Sequence 8, Appli
567	26	57.8	376	5	US-09-977-371-100	Sequence 100, App	640	26	57.8	466	2	US-09-248-796A-20553	Sequence 20553, A
568	26	57.8	376	5	US-09-977-371-102	Sequence 102, App	641	26	57.8	477	2	US-09-248-796A-17800	Sequence 17800, A
569	26	57.8	381	2	US-09-248-796A-19481	Sequence 19481, A	642	26	57.8	483	2	US-09-693-746-20	Sequence 20, Appl
570	26	57.8	382	1	US-08-415-818-7	Sequence 7, Appli	643	26	57.8	487	2	US-09-252-991A-29392	Sequence 29392, A
571	26	57.8	382	1	US-08-894-236-7	Sequence 7, Appli	644	26	57.8	487	2	US-09-693-746-20	Sequence 20, Appl
572	26	57.8	382	1	US-08-555-268A-13	Sequence 13, Appli	645	26	57.8	497	1	US-08-511-485-4	Sequence 4, Appli
573	26	57.8	382	2	US-08-555-268A-14	Sequence 14, Appli	646	26	57.8	497	2	US-09-212-971-4	Sequence 4, Appli
574	26	57.8	382	2	US-09-430-775-35	Sequence 35, Appli	647	26	57.8	497	2	US-08-800-929A-4	Sequence 4, Appli
575	26	57.8	382	2	US-09-430-775-36	Sequence 36, Appli	648	26	57.8	497	2	US-08-617-053A-4	Sequence 4, Appli
576	26	57.8	382	4	PCT-US96-01444-7	Sequence 7, Appli	649	26	57.8	497	2	US-08-657-759-2	Sequence 2, Appli
577	26	57.8	390	2	US-09-328-352-7807	Sequence 7807, Ap	650	26	57.8	497	2	US-09-201-936-4	Sequence 4, Appli
578	26	57.8	390	2	US-09-991-181-205	Sequence 205, App	651	26	57.8	497	2	US-09-011-356-4	Sequence 4, Appli
579	26	57.8	392	2	US-09-990-444-205	Sequence 205, App	652	26	57.8	497	2	US-09-672-717-219	Sequence 219, App
580	26	57.8	392	2	US-09-997-333-205	Sequence 205, App	653	26	57.8	497	2	US-09-201-936-4	Sequence 4, Appli
581	26	57.8	392	2	US-09-992-598-205	Sequence 205, App	654	26	57.8	497	2	US-09-672-717-219	Sequence 219, App
582	26	57.8	393	2	US-09-482-273-154	Sequence 154, Appl	655	26	57.8	501	2	US-09-971-611-4	Sequence 4, Appli
583	26	57.8	393	2	US-09-538-092-34	Sequence 34, Appl	656	26	57.8	501	2	US-09-465-519-2	Sequence 2, Appli
584	26	57.8	394	2	US-10-013-846-17	Sequence 17, Appl	657	26	57.8	501	2	US-09-971-611-4	Sequence 4, Appli
585	26	57.8	394	2	US-10-410-648-17	Sequence 17, Appl	658	26	57.8	501	2	US-10-136-272-2	Sequence 2, Appli
586	26	57.8	397	2	US-09-489-039A-11038	Sequence 11038, A	659	26	57.8	501	2	US-10-136-272-4	Sequence 4, Appli
587	26	57.8	408	2	US-09-902-540-11436	Sequence 11436, A	660	26	57.8	505	2	US-09-627-216A-12	Sequence 12, Appl
588	26	57.8	413	2	US-09-543-681A-6035	Sequence 6035, Ap	661	26	57.8	505	2	US-09-126-420A-22	Sequence 22, Appl
589	26	57.8	418	2	US-09-328-352-8089	Sequence 8089, Ap	662	26	57.8	505	2	US-09-765-873A-12	Sequence 12, Appl
590	26	57.8	422	2	US-09-949-016-8167	Sequence 8167, Ap	663	26	57.8	509	1	US-08-890-980-2	Sequence 2, Appli
591	26	57.8	429	2	US-09-543-681A-77552	Sequence 7252, Ap	664	26	57.8	509	2	US-08-890-979-2	Sequence 2, Appli
592	26	57.8	429	2	US-09-653-274-9	Sequence 9, Appli	665	26	57.8	509	2	US-09-032-894-2	Sequence 2, Appli
593	26	57.8	429	2	US-10-461-791-9	Sequence 9, Appli	666	26	57.8	509	2	US-09-031-626-2	Sequence 2, Appli
594	26	57.8	438	2	US-09-710-279-508	Sequence 508, App	667	26	57.8	509	2	US-09-034-272-59	Sequence 59, Appl
595	26	57.8	445	1	US-08-630-118A-2	Sequence 2, Appli	668	26	57.8	510	2	US-09-602-787A-356	Sequence 356, App
596	26	57.8	445	1	US-08-630-118A-4	Sequence 4, Appli	669	26	57.8	510	2	US-09-605-703B-2328	Sequence 2328, Ap
597	26	57.8	445	1	US-08-630-118A-6	Sequence 6, Appli	670	26	57.8	519	2	US-09-854-122-44	Sequence 44, Appl
598	26	57.8	445	1	US-08-630-118A-6	Sequence 6, Appli	671	26	57.8	528	2	US-08-637-670-27	Sequence 27, Appl
599	26	57.8	445	1	US-08-338-399-2	Sequence 2, Appli	672	26	57.8	539	2	US-10-082-894-3	Sequence 3, Appli
600	26	57.8	445	1	US-08-338-399-4	Sequence 4, Appli	673	26	57.8	541	2	US-09-134-001C-4481	Sequence 4481, Ap
601	26	57.8	445	1	US-09-003-199-2	Sequence 2, Appli	674	26	57.8	543	2	US-09-248-796A-20036	Sequence 20036, A
602	26	57.8	445	1	US-09-003-199-21	Sequence 21, Appli	675	26	57.8	545	2	US-09-949-016-10223	Sequence 10223, A
603	26	57.8	445	1	US-09-003-199-23	Sequence 23, Appli	676	26	57.8	553	2	US-09-068-655-6	Sequence 6, Appli
604	26	57.8	445	1	US-09-235-839-2	Sequence 2, Appli	677	26	57.8	554	2	US-09-252-991A-27968	Sequence 27968, A
605	26	57.8	445	2	US-09-235-839-4	Sequence 4, Appli	678	26	57.8	559	2	US-09-242-960A-15	Sequence 15, Appl
606	26	57.8	445	2	US-09-235-839-6	Sequence 6, Appli	679	26	57.8	559	2	US-09-298-924-6	Sequence 6, Appli
607	26	57.8	445	2	US-09-235-839-9	Sequence 9, Appli	680	26	57.8	559	2	US-09-908-855-15	Sequence 15, Appl
608	26	57.8	445	2	US-09-040-958-2	Sequence 2, Appli	681	26	57.8	559	2	US-09-583-110-4688	Sequence 4688, Ap
609	26	57.8	445	2	US-09-327-035-2	Sequence 2, Appli	682	26	57.8	566	2	US-09-107-433-4306	Sequence 4306, Ap
610	26	57.8	445	2	US-09-327-035-4	Sequence 4, Appli	683	26	57.8	567	2	US-09-514-245-6	Sequence 6, Appli
611	26	57.8	445	2	US-09-327-035-6	Sequence 6, Appli	684	26	57.8	569	2	US-08-961-083-154	Sequence 154, App

685	26	57.8	569	2	US-09-536-784-154	Sequence 154, App	758	25.5	56.7	294	2	US-09-107-532A-6933	Sequence 6933, App
686	26	57.8	569	2	US-09-765-271-154	Sequence 154, App	759	25.5	56.7	1398	2	US-09-543-681A-7425	Sequence 7425, App
687	26	57.8	569	2	US-09-765-272A-154	Sequence 154, App	760	25.5	56.7	1698	2	US-09-315-793-12	Sequence 12, App
688	26	57.8	581	2	US-09-643-747A-13	Sequence 13, Appl	761	25	55.6	9	2	US-09-518-046-11	Sequence 41, Appl
689	26	57.8	581	2	US-09-649-747A-21	Sequence 21, Appl	762	25	55.6	9	2	US-09-650-371-11	Sequence 41, Appl
690	26	57.8	591	2	US-08-961-083-74	Sequence 74, Appl	763	25	55.6	15	1	US-08-031-538-11	Sequence 41, Appl
691	26	57.8	591	2	US-09-536-784-74	Sequence 74, Appl	764	25	55.6	15	1	US-08-031-538-51	Sequence 51, Appl
692	26	57.8	591	2	US-09-543-681A-7047	Sequence 7047, Ap	765	25	55.6	18	2	US-09-121-211-6	Sequence 6, Appl
693	26	57.8	591	2	US-09-765-271-74	Sequence 74, Appl	766	25	55.6	21	2	US-09-962-756-552	Sequence 552, App
694	26	57.8	591	2	US-09-765-272A-74	Sequence 74, Appl	767	25	55.6	24	2	US-08-482-918-74	Sequence 74, Appl
695	26	57.8	606	2	US-09-460-295B-12	Sequence 12, Appl	768	25	55.6	24	2	US-09-224-681-74	Sequence 74, Appl
696	26	57.8	613	2	US-09-248-796A-20764	Sequence 20764, A	769	25	55.6	24	2	US-08-336-728A-74	Sequence 74, Appl
697	26	57.8	614	2	US-09-543-681A-4330	Sequence 4330, Ap	770	25	55.6	24	2	US-09-635-251-74	Sequence 74, Appl
698	26	57.8	616	2	US-09-489-039A-12599	Sequence 12599, A	771	25	55.6	24	2	US-09-224-683-74	Sequence 74, Appl
699	26	57.8	629	1	US-09-949-016-7746	Sequence 7746, Ap	772	25	55.6	24	2	US-09-604-325A-74	Sequence 74, Appl
700	26	57.8	638	1	US-08-681-151-3	Sequence 3, Appl	773	25	55.6	26	1	US-08-221-730A-14	Sequence 14, Appl
701	26	57.8	640	2	US-09-949-016-8010	Sequence 8010, Ap	774	25	55.6	26	1	US-08-457-798-14	Sequence 14, Appl
702	26	57.8	653	2	US-09-443-184-50	Sequence 50, Appl	775	25	55.6	26	1	US-08-457-171-14	Sequence 14, Appl
703	26	57.8	658	2	US-09-769-787-17	Sequence 17, Appl	776	25	55.6	26	1	US-08-505-486-14	Sequence 14, Appl
704	26	57.8	663	2	US-09-194-468A-30	Sequence 30, Appl	777	25	55.6	26	1	US-08-475-328-14	Sequence 14, Appl
705	26	57.8	667	2	US-09-328-352-5747	Sequence 5747, Ap	778	25	55.6	26	2	US-08-689-489C-14	Sequence 14, Appl
706	26	57.8	672	2	US-09-769-787-155	Sequence 155, App	779	25	55.6	26	2	US-08-801-028-14	Sequence 14, Appl
707	26	57.8	687	2	US-09-248-796A-18382	Sequence 18382, A	780	25	55.6	26	2	US-09-340-154-14	Sequence 14, Appl
708	26	57.8	700	2	US-08-931-952-2	Sequence 2, Appl	781	25	55.6	26	2	US-09-232-802A-14	Sequence 14, Appl
709	26	57.8	700	2	US-08-272-247-2	Sequence 2, Appl	782	25	55.6	26	2	US-09-482-611B-14	Sequence 14, Appl
710	26	57.8	700	4	PCT-US95-08560-2	Sequence 2, Appl	783	25	55.6	26	4	PCT-US94-06176-14	Sequence 14, Appl
711	26	57.8	704	2	US-10-109-084-2	Sequence 2, Appl	784	25	55.6	26	4	PCT-US95-04335-14	Sequence 14, Appl
712	26	57.8	710	2	US-10-109-084-7	Sequence 7, Appl	785	25	55.6	26	4	PCT-US95-04718-14	Sequence 14, Appl
713	26	57.8	721	2	US-09-583-110-5179	Sequence 5179, Ap	786	25	55.6	26	4	PCT-US95-09338-14	Sequence 14, Appl
714	26	57.8	741	2	US-09-248-796A-15489	Sequence 15489, A	787	25	55.6	26	4	PCT-US95-09338-14	Sequence 14, Appl
715	26	57.8	742	2	US-09-902-540-11489	Sequence 11489, A	788	25	55.6	28	2	US-09-270-767-59350	Sequence 59350, A
716	26	57.8	743	2	US-09-134-000C-4684	Sequence 4684, Ap	789	25	55.6	30	1	US-08-231-730A-13	Sequence 13, Appl
717	26	57.8	750	2	US-09-107-433-4321	Sequence 4321, Ap	790	25	55.6	30	1	US-08-457-798-13	Sequence 13, Appl
718	26	57.8	750	2	US-09-902-540-11016	Sequence 11016, A	791	25	55.6	30	1	US-08-457-171-13	Sequence 13, Appl
719	26	57.8	764	2	US-09-489-039A-8823	Sequence 8823, Ap	792	25	55.6	30	1	US-08-505-486-13	Sequence 13, Appl
720	26	57.8	795	2	US-10-104-047-2810	Sequence 2810, Ap	793	25	55.6	30	1	US-08-475-328-13	Sequence 13, Appl
721	26	57.8	826	2	US-09-134-000C-4999	Sequence 4999, Ap	794	25	55.6	30	2	US-08-689-489C-13	Sequence 13, Appl
722	26	57.8	827	2	US-10-101-464A-915	Sequence 915, App	795	25	55.6	30	2	US-08-801-028-13	Sequence 13, Appl
723	26	57.8	855	1	US-08-619-554-6	Sequence 6, Appl	796	25	55.6	30	2	US-09-340-154-13	Sequence 13, Appl
724	26	57.8	876	2	US-09-438-185A-894	Sequence 894, App	797	25	55.6	30	2	US-09-232-802A-13	Sequence 13, Appl
725	26	57.8	884	2	US-08-851-843A-55	Sequence 55, Appl	798	25	55.6	30	2	US-09-482-611B-13	Sequence 13, Appl
726	26	57.8	884	2	US-08-974-549A-222	Sequence 222, App	799	25	55.6	30	4	PCT-US94-06176-13	Sequence 13, Appl
727	26	57.8	884	2	US-08-854-050-55	Sequence 55, Appl	800	25	55.6	30	4	PCT-US95-04333-13	Sequence 13, Appl
728	26	57.8	884	2	US-09-430-323-55	Sequence 55, Appl	801	25	55.6	30	4	PCT-US95-04718-13	Sequence 13, Appl
729	26	57.8	884	2	US-09-402-181B-222	Sequence 222, App	802	25	55.6	30	4	PCT-US95-09338-13	Sequence 13, Appl
730	26	57.8	884	2	US-09-721-456-222	Sequence 222, App	803	25	55.6	30	4	PCT-US95-09338-13	Sequence 13, Appl
731	26	57.8	884	2	US-09-766-253-55	Sequence 55, Appl	804	25	55.6	34	2	US-08-482-918-79	Sequence 79, Appl
732	26	57.8	884	2	US-09-502-498C-5	Sequence 5, Appl	805	25	55.6	34	2	US-09-224-681-79	Sequence 79, Appl
733	26	57.8	884	2	US-09-502-424C-5	Sequence 5, Appl	806	25	55.6	34	2	US-08-336-728A-79	Sequence 79, Appl
734	26	57.8	884	2	US-10-054-295-55	Sequence 55, Appl	807	25	55.6	34	2	US-09-635-251-79	Sequence 79, Appl
735	26	57.8	884	2	US-09-438-486A-55	Sequence 55, Appl	808	25	55.6	34	2	US-09-224-683-79	Sequence 79, Appl
736	26	57.8	889	2	US-09-438-185A-614	Sequence 614, App	809	25	55.6	34	2	US-09-604-325A-79	Sequence 79, Appl
737	26	57.8	914	2	US-10-163-214-12	Sequence 12, Appl	810	25	55.6	37	2	US-08-482-918-80	Sequence 80, Appl
738	26	57.8	914	2	US-10-163-214-6	Sequence 6, Appl	811	25	55.6	37	2	US-09-224-681-80	Sequence 80, Appl
739	26	57.8	981	2	US-09-252-991A-18616	Sequence 18616, A	812	25	55.6	37	2	US-08-336-728A-80	Sequence 80, Appl
740	26	57.8	1003	2	US-09-521-511C-11	Sequence 11, Appl	813	25	55.6	37	2	US-09-635-251-80	Sequence 80, Appl
741	26	57.8	1017	2	US-09-600-776-6	Sequence 6, Appl	814	25	55.6	37	2	US-09-224-683-80	Sequence 80, Appl
742	26	57.8	1017	2	US-09-965-830-6	Sequence 6, Appl	815	25	55.6	37	2	US-09-604-325A-80	Sequence 80, Appl
743	26	57.8	1024	2	US-09-091-117-5	Sequence 5, Appl	816	25	55.6	39	2	US-09-902-540-10463	Sequence 10463, A
744	26	57.8	1030	2	US-09-091-117-2	Sequence 2, Appl	817	25	55.6	50	2	US-09-227-701-9	Sequence 9, Appl
745	26	57.8	1070	2	US-09-653-274-8	Sequence 8, Appl	818	25	55.6	62	2	US-09-248-796A-27473	Sequence 27473, A
746	26	57.8	1070	2	US-10-461-791-8	Sequence 8, Appl	819	25	55.6	63	2	US-09-270-767-60744	Sequence 60744, A
747	26	57.8	1086	2	US-09-653-274-4	Sequence 4, Appl	820	25	55.6	66	2	US-09-513-999C-6740	Sequence 6740, Ap
748	26	57.8	1086	2	US-10-461-791-4	Sequence 4, Appl	821	25	55.6	68	2	US-08-817-177-1	Sequence 1, Appl
749	26	57.8	1259	1	US-09-902-540C-12	Sequence 12, Appl	822	25	55.6	68	4	PCT-US95-12686-1	Sequence 1, Appl
750	26	57.8	1674	1	US-08-968-542C-12	Sequence 12, Appl	823	25	55.6	70	2	US-09-288-143-214	Sequence 214, Appl
751	26	57.8	1674	1	US-09-554-67A-12	Sequence 12, Appl	824	25	55.6	71	2	US-09-328-352-7713	Sequence 7713, Ap
752	26	57.8	1720	1	US-08-477-451-12	Sequence 12, Appl	825	25	55.6	73	2	US-09-248-796A-27178	Sequence 27178, A
753	26	57.8	1768	2	US-09-489-039A-11704	Sequence 11704, A	826	25	55.6	75	2	US-09-248-796A-21308	Sequence 21308, A
754	26	57.8	3135	1	US-08-333-170B-2	Sequence 2, Appl	827	25	55.6	76	2	US-09-621-976-5761	Sequence 5761, Ap
755	26	57.8	3135	1	US-08-954-441-2	Sequence 2, Appl	828	25	55.6	76	2	US-09-621-976-6064	Sequence 6064, Ap
756	25.5	56.7	195	2	US-09-270-767-34206	Sequence 34206, A	829	25	55.6	77	2	US-09-270-767-61447	Sequence 61447, A
757	25.5	56.7	195	2	US-09-270-767-49423	Sequence 49423, A	830	25	55.6	77	2	US-09-248-796A-27236	Sequence 27236, A

831	25	55.6	87	2	US-09-328-352-4222	Sequence 4222, Ap	904	25	55.6	191	2	US-09-489-039A-14085	Sequence 14085, A
832	25	55.6	87	2	US-09-270-767-60924	Sequence 60924, A	905	25	55.6	196	2	US-08-482-918-40	Sequence 40, Appl
833	25	55.6	90	2	US-09-513-999C-7362	Sequence 7362, Ap	906	25	55.6	196	2	US-08-224-681-40	Sequence 40, Appl
834	25	55.6	91	2	US-09-621-976-6309	Sequence 6309, Ap	907	25	55.6	196	2	US-08-336-128A-40	Sequence 40, Appl
835	25	55.6	103	2	US-09-830-230A-58	Sequence 58, Appl	908	25	55.6	196	2	US-09-635-251-40	Sequence 40, Appl
836	25	55.6	107	2	US-09-248-796A-25164	Sequence 25164, A	909	25	55.6	196	2	US-09-107-433-5167	Sequence 5167, Ap
837	25	55.6	107	2	US-10-104-047-3667	Sequence 3667, Ap	910	25	55.6	196	2	US-09-224-683-40	Sequence 40, Appl
838	25	55.6	110	2	US-09-107-532A-4859	Sequence 4859, Ap	911	25	55.6	196	2	US-09-604-325A-40	Sequence 40, Appl
839	25	55.6	113	2	US-09-107-532A-6213	Sequence 6213, Ap	912	25	55.6	199	2	US-08-737-248-9	Sequence 9, Appl
840	25	55.6	114	2	US-09-248-796A-23592	Sequence 23592, A	913	25	55.6	199	2	US-09-248-796A-21055	Sequence 21055, A
841	25	55.6	115	2	US-09-710-279-600	Sequence 600, App	914	25	55.6	201	1	US-08-220-379B-4	Sequence 4, Appl
842	25	55.6	122	2	US-09-252-991A-31511	Sequence 31511, A	915	25	55.6	204	2	US-09-134-001C-4814	Sequence 4814, Ap
843	25	55.6	122	2	US-09-710-279-102	Sequence 102, App	916	25	55.6	204	2	US-09-902-540-15949	Sequence 15949, A
844	25	55.6	123	2	US-10-104-047-2112	Sequence 2112, App	917	25	55.6	205	2	US-09-270-767-44526	Sequence 44526, A
845	25	55.6	124	2	US-09-270-767-37861	Sequence 37861, A	918	25	55.6	208	2	US-09-489-029A-13169	Sequence 13169, A
846	25	55.6	124	2	US-09-270-767-53078	Sequence 53078, A	919	25	55.6	208	2	US-09-270-767-44707	Sequence 44707, A
847	25	55.6	125	2	US-09-270-767-38709	Sequence 38709, A	920	25	55.6	209	2	US-09-248-796A-19324	Sequence 19324, A
848	25	55.6	125	2	US-09-270-767-53926	Sequence 53926, A	921	25	55.6	211	1	US-08-428-415-9	Sequence 9, Appl
849	25	55.6	126	2	US-09-328-352-5837	Sequence 5837, Ap	922	25	55.6	211	1	US-08-379-685-9	Sequence 9, Appl
850	25	55.6	128	2	US-09-270-767-32430	Sequence 32430, A	923	25	55.6	211	1	US-08-854-029-9	Sequence 9, Appl
851	25	55.6	128	2	US-09-270-767-47647	Sequence 47647, A	924	25	55.6	212	2	US-08-428-762-9	Sequence 9, Appl
852	25	55.6	132	1	US-08-470-179-26	Sequence 26, Appl	925	25	55.6	212	2	US-09-248-796A-20298	Sequence 20298, A
853	25	55.6	133	2	US-09-830-230A-57	Sequence 57, Appl	926	25	55.6	214	2	US-09-198-452A-108	Sequence 108, App
854	25	55.6	135	2	US-08-804-439A-93	Sequence 93, Appl	927	25	55.6	214	2	US-09-438-185A-92	Sequence 92, Appl
855	25	55.6	135	2	US-08-720-229-93	Sequence 93, Appl	928	25	55.6	216	2	US-09-914-375C-4	Sequence 4, Appl
856	25	55.6	136	2	US-09-489-039A-13120	Sequence 13120, A	929	25	55.6	217	2	US-09-328-352-1258	Sequence 1258, Ap
857	25	55.6	136	2	US-09-270-767-37441	Sequence 37441, A	930	25	55.6	217	2	US-09-248-796A-14339	Sequence 14339, A
858	25	55.6	136	2	US-09-270-767-52658	Sequence 52658, A	931	25	55.6	221	2	US-09-107-532A-4477	Sequence 4477, Ap
859	25	55.6	136	2	US-10-101-464A-675	Sequence 675, App	932	25	55.6	221	2	US-09-134-000C-6523	Sequence 6523, Ap
860	25	55.6	143	2	US-09-248-796A-16664	Sequence 16664, A	933	25	55.6	222	2	US-09-248-796A-15088	Sequence 15088, A
861	25	55.6	143	2	US-09-248-796A-17140	Sequence 17140, A	934	25	55.6	222	2	US-08-845-546-10	Sequence 10, Appl
862	25	55.6	143	2	US-09-248-796A-26060	Sequence 26060, A	935	25	55.6	222	2	US-09-602-787A-412	Sequence 412, App
863	25	55.6	151	2	US-09-134-001C-5595	Sequence 5595, Ap	936	25	55.6	222	2	US-09-248-796A-19110	Sequence 19120, A
864	25	55.6	151	2	US-09-270-767-46627	Sequence 46627, A	937	25	55.6	223	2	US-09-658-644-4	Sequence 4, Appl
865	25	55.6	152	2	US-08-936-165A-264	Sequence 264, App	938	25	55.6	223	2	US-09-134-000C-6303	Sequence 6303, Ap
866	25	55.6	155	2	US-09-248-796A-17198	Sequence 17198, A	939	25	55.6	223	2	US-09-949-016-6832	Sequence 6832, Ap
867	25	55.6	159	2	US-09-270-767-41769	Sequence 41769, A	940	25	55.6	225	2	US-09-583-110-3540	Sequence 3540, Ap
868	25	55.6	162	2	US-09-270-767-34236	Sequence 34236, A	941	25	55.6	225	2	US-09-107-443-4721	Sequence 4721, Ap
869	25	55.6	162	2	US-09-270-767-49453	Sequence 49453, A	942	25	55.6	228	2	US-09-248-796A-21033	Sequence 21033, A
870	25	55.6	163	2	US-09-270-767-42196	Sequence 42196, A	943	25	55.6	230	2	US-09-134-001C-3744	Sequence 3744, Ap
871	25	55.6	163	2	US-09-270-767-45418	Sequence 45418, A	944	25	55.6	230	2	US-09-134-001C-3744	Sequence 3744, Ap
872	25	55.6	164	1	US-08-357-125-4	Sequence 4, Appl	945	25	55.6	234	2	US-09-270-767-44346	Sequence 44346, A
873	25	55.6	164	1	US-09-248-796A-15415	Sequence 15415, A	946	25	55.6	234	2	US-09-107-532A-3787	Sequence 3787, Ap
874	25	55.6	164	2	US-09-609-027B-8	Sequence 8, Appl	947	25	55.6	237	2	US-08-924-747-28	Sequence 28, Appl
875	25	55.6	164	2	US-09-609-027B-9	Sequence 9, Appl	948	25	55.6	237	2	US-09-247-373B-28	Sequence 28, Appl
876	25	55.6	165	2	US-08-482-918-1	Sequence 1, Appl	949	25	55.6	237	2	US-09-296-715-28	Sequence 28, Appl
877	25	55.6	165	2	US-09-224-681-1	Sequence 1, Appl	950	25	55.6	237	2	US-09-605-703B-2342	Sequence 2342, Ap
878	25	55.6	165	2	US-08-336-728A-1	Sequence 1, Appl	951	25	55.6	241	2	US-09-134-000C-6347	Sequence 6347, Ap
879	25	55.6	165	2	US-09-270-767-41018	Sequence 41018, A	952	25	55.6	241	2	US-09-372-422A-28	Sequence 28, Appl
880	25	55.6	165	2	US-09-270-767-56234	Sequence 56234, A	953	25	55.6	251	2	US-09-372-422A-10	Sequence 10, Appl
881	25	55.6	165	2	US-09-635-251-1	Sequence 1, Appl	954	25	55.6	256	2	US-09-270-767-43279	Sequence 43279, A
882	25	55.6	165	2	US-09-224-683-1	Sequence 1, Appl	955	25	55.6	256	2	US-09-230-637-29	Sequence 29, Appl
883	25	55.6	165	2	US-09-604-325A-1	Sequence 1, Appl	956	25	55.6	257	2	US-09-489-039A-11557	Sequence 11557, A
884	25	55.6	165	4	PCT-US95-03866-4	Sequence 4, Appl	957	25	55.6	257	2	US-09-372-422A-28	Sequence 28, Appl
885	25	55.6	165	4	PCT-US95-03866-5	Sequence 5, Appl	958	25	55.6	258	2	US-10-104-047-3192	Sequence 3192, Ap
886	25	55.6	167	2	US-09-710-279-1802	Sequence 1802, Ap	959	25	55.6	263	2	US-09-543-681A-4613	Sequence 4613, Ap
887	25	55.6	169	2	US-09-134-001C-5390	Sequence 5390, Ap	960	25	55.6	263	2	US-09-248-796A-14729	Sequence 14729, A
888	25	55.6	169	2	US-10-101-464A-506	Sequence 506, App	961	25	55.6	265	2	US-09-134-001C-1998	Sequence 20632, A
889	25	55.6	170	2	US-09-107-532A-5197	Sequence 5197, Ap	962	25	55.6	266	2	US-09-252-991A-20692	Sequence 57, Appl
890	25	55.6	175	1	US-08-624-125-6	Sequence 6, Appl	963	25	55.6	266	2	US-08-482-918-57	Sequence 57, Appl
891	25	55.6	175	2	US-08-937-155-6	Sequence 6, Appl	964	25	55.6	266	2	US-09-224-681-57	Sequence 57, Appl
892	25	55.6	175	2	US-09-323-998B-6	Sequence 6, Appl	965	25	55.6	266	2	US-08-336-728A-57	Sequence 57, Appl
893	25	55.6	175	2	US-09-248-796A-20044	Sequence 20044, A	966	25	55.6	266	2	US-10-083-624-4	Sequence 4, Appl
894	25	55.6	175	2	US-10-104-047-3905	Sequence 3905, Ap	967	25	55.6	266	2	US-09-635-251-57	Sequence 57, Appl
895	25	55.6	176	1	US-08-096-623A-18	Sequence 18, Appl	968	25	55.6	266	2	US-09-224-681-57	Sequence 57, Appl
896	25	55.6	177	2	US-09-248-796A-16229	Sequence 16229, A	969	25	55.6	266	2	US-09-604-328A-57	Sequence 57, Appl
897	25	55.6	185	2	US-09-583-110-2898	Sequence 18289, A	970	25	55.6	269	2	US-09-270-767-37552	Sequence 37552, A
898	25	55.6	187	2	US-09-270-767-34908	Sequence 34908, Ap	971	25	55.6	269	2	US-09-270-767-52763	Sequence 52763, A
899	25	55.6	187	2	US-09-270-767-42922	Sequence 42922, A	972	25	55.6	272	2	US-09-372-422A-26	Sequence 26, Appl
900	25	55.6	187	2	US-09-270-767-50125	Sequence 50125, A	973	25	55.6	272	2	US-09-270-767-33352	Sequence 33352, A
901	25	55.6	187	2	US-09-248-796A-15667	Sequence 15667, A	974	25	55.6	273	1	US-09-270-767-50569	Sequence 50569, A
902	25	55.6	188	2	US-09-270-767-57801	Sequence 57801, A	975	25	55.6	273	1	US-08-220-379B-6	Sequence 6, Appl
903	25	55.6	191	2	US-08-858-207A-339	Sequence 339, App	976	25	55.6	273	1	US-08-341-456A-11	Sequence 11, Appl

977 25 55.6 273 1 US-08-478-414A-11 Sequence 11, Appl  
978 25 55.6 273 2 US-08-325-240A-11 Sequence 11, Appl  
979 25 55.6 273 2 US-08-898-982-11 Sequence 11, Appl  
980 25 55.6 273 2 US-08-482-918-42 Sequence 42, Appl  
981 25 55.6 273 2 US-08-482-918-54 Sequence 54, Appl  
982 25 55.6 273 2 US-08-482-918-55 Sequence 55, Appl  
983 25 55.6 273 2 US-09-224-681-42 Sequence 42, Appl  
984 25 55.6 273 2 US-09-224-681-54 Sequence 54, Appl  
985 25 55.6 273 2 US-09-224-681-55 Sequence 55, Appl  
986 25 55.6 273 2 US-08-336-728A-42 Sequence 42, Appl  
987 25 55.6 273 2 US-08-336-728A-54 Sequence 54, Appl  
988 25 55.6 273 2 US-08-336-728A-55 Sequence 55, Appl  
989 25 55.6 273 2 US-09-371-261-11 Sequence 11, Appl  
990 25 55.6 273 2 US-09-635-251-42 Sequence 42, Appl  
991 25 55.6 273 2 US-09-635-251-54 Sequence 54, Appl  
992 25 55.6 273 2 US-09-635-251-55 Sequence 55, Appl  
993 25 55.6 273 2 US-09-224-683-42 Sequence 42, Appl  
994 25 55.6 273 2 US-09-224-683-54 Sequence 54, Appl  
995 25 55.6 273 2 US-09-224-683-55 Sequence 55, Appl  
996 25 55.6 273 2 US-09-604-325A-42 Sequence 42, Appl  
997 25 55.6 273 2 US-09-604-325A-54 Sequence 54, Appl  
998 25 55.6 273 2 US-09-604-325A-55 Sequence 55, Appl  
999 25 55.6 275 2 US-09-902-540-12996 Sequence 12996, A  
1000 25 55.6 275 2 US-09-902-540-13102 Sequence 13102, A

## ALIGNMENTS

RESULT 1  
US-08-247-904B-10  
Sequence 10, Application US/08247904B  
Patent No. 5981699  
GENERAL INFORMATION:  
APPLICANT: Rolle, Mark  
APPLICANT: Eckstein, Jens W.  
APPLICANT: Draetta, Giulio  
TITLE OF INVENTION: Human Ubiquitin Conjugating Enzyme  
NUMBER OF SEQUENCES: 17  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Foley, Hoag & Eliot  
STREET: One Post Office Square  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: ASCII(text)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/247,904B  
FILING DATE: 23-MAY-1994  
CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: Vincent, Matthew P.  
REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: MIV-029, 01  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 832-1000  
TELEFAX: (617) 832-7000  
INFORMATION FOR SEQ ID NO: 10:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 158 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-247-904B-10  
Query Match 100.0%; Score 45; DB 1; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.18; Mismatches 0; Indels 0; Gaps 0;  
Matches 9; Conservative 0;

Oy 1 FAFKDLFV 9  
Db 47 FAFKDLFV 55

RESULT 2  
US-08-767-942A-19  
Sequence 19, Application US/08767942A  
Patent No. 6068982  
GENERAL INFORMATION:  
APPLICANT: Rolle, Mark  
APPLICANT: Chiu, M. Isabel  
APPLICANT: Berlin, Vivian  
APPLICANT: Damagnez, Veronique  
APPLICANT: Draetta, Giulio  
APPLICANT: Guillaume, Cottarel  
TITLE OF INVENTION: UBIQUITIN CONJUGATING ENZYMES  
NUMBER OF SEQUENCES: 45  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FOLEY, HOAG & ELIOT LLP  
STREET: One Post Office Square  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02109-2170  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/767,942A  
FILING DATE: 17-DEC-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Vincent, Matthew P.  
REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: MIV-029, 04  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-832-1000  
TELEFAX: 617-832-7000  
INFORMATION FOR SEQ ID NO: 19:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 158 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-767-942A-19  
Query Match 100.0%; Score 45; DB 2; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.18; Mismatches 0; Indels 0; Gaps 0;  
Matches 9; Conservative 0;  
Oy 1 FAFKDLFV 9  
Db 47 FAFKDLFV 55  
RESULT 3  
US-08-117-083-14  
Sequence 14, Application US/08117083  
Patent No. 5719054  
GENERAL INFORMATION:  
APPLICANT: Boursnell, Michael E.  
APPLICANT: Inglis, Stephen C.  
APPLICANT: Munro, Alan J.  
TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human  
NUMBER OF SEQUENCES: 70  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Walter H. Dreyer  
STREET: 4 Embarcadero Center, Suite 3400  
CITY: San Francisco

STATE: CA  
COUNTRY: USA  
ZIP: 94111  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/117,083  
FILING DATE: 10-SEP-1993  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Dreger, Walter H.  
REGISTRATION NUMBER: 24,190  
REFERENCE/DOCKET NUMBER: A-58783  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-781-1989  
TELEFAX: 415-398-3249  
TELEX: 910 277299  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 271 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
NAME/KEY: Protein  
LOCATION: 1..271  
OTHER INFORMATION: /note="Xaa refers to stop codon in  
OTHER INFORMATION: the open reading frame."  
US-08-117-083-14

Query Match 100.0%; Score 45; DB 1; Length 271;  
Best Local Similarity 100.0%; Pred. No. 0.32;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 9  
Db 48 FAFKDLFV 56

RESULT 4  
US-09-485-885-21  
Sequence 21, Application US/09485885  
Patent No. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabezon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Bernande  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 21  
LENGTH: 278  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-485-885-21

Query Match 100.0%; Score 45; DB 2; Length 278;  
Best Local Similarity 100.0%; Pred. No. 0.33;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 9  
Db 158 FAFKDLFV 166

RESULT 5  
US-09-485-885-23  
Sequence 23, Application US/09485885  
Patent No. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabezon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Bernande  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 23  
LENGTH: 383  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-485-885-23

Query Match 100.0%; Score 45; DB 2; Length 383;  
Best Local Similarity 100.0%; Pred. No. 0.46;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 9  
Db 158 FAFKDLFV 166

RESULT 6  
US-09-328-352-6272  
Sequence 6272, Application US/09328352  
Patent No. 6562958  
GENERAL INFORMATION:  
APPLICANT: Gary L. Breton et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER  
TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS  
FILE REFERENCE: GTC99-03PA  
CURRENT APPLICATION NUMBER: US/09/328,352  
CURRENT FILING DATE: 1999-06-04  
NUMBER OF SEQ ID NOS: 8252  
SEQ ID NO 6272  
LENGTH: 329  
TYPE: PRT  
ORGANISM: Acinetobacter baumannii  
US-09-328-352-6272

Query Match 77.8%; Score 35; DB 2; Length 329;  
Best Local Similarity 85.7%; Pred. No. 36;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFKDLF 7  
Db 142 FAFKDLF 148

RESULT 7  
US-09-252-991A-32396  
Sequence 32396, Application US/09252991A  
Patent No. 6551795  
GENERAL INFORMATION:  
APPLICANT: Marc J. Rudenfield et al.

;; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
;; FILE REFERENCE: 107196.136  
;; CURRENT APPLICATION NUMBER: US/09/252,991A  
;; CURRENT FILING DATE: 1999-02-18  
;; PRIOR APPLICATION NUMBER: US 60/074,788  
;; PRIOR FILING DATE: 1998-02-18  
;; PRIOR APPLICATION NUMBER: US 60/094,190  
;; PRIOR FILING DATE: 1998-07-27  
;; NUMBER OF SEQ ID NOS: 33142  
;; SEQ ID NO 32396  
;; LENGTH: 351  
;; TYPE: PRT  
;; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-32396

Query Match 75.6%; Score 34; DB 2; Length 351;  
Best Local Similarity 81.8%; Pred. No. 60;  
Matches 9; Conservative 0; Mismatches 0; Indels 2; Gaps 1;

Qy 1 FAF--KDLFV 9  
Db 300 FAFKDLFV 310

RESULT 8  
US-09-345-473E-27  
; Sequence 27, Application US/09345473E  
; Patent No. 6558903  
; GENERAL INFORMATION:  
; APPLICANT: Hodge, Martin  
; TITLE OF INVENTION: No. 6558903el Kinases and Uses Thereof  
; FILE REFERENCE: 35800/183781  
; CURRENT APPLICATION NUMBER: US/09/345,473E  
; CURRENT FILING DATE: 1999-06-30  
; NUMBER OF SEQ ID NOS: 62  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 27  
; LENGTH: 669  
; TYPE: PRT  
; ORGANISM: Arabidopsis thaliana  
US-09-345-473E-27

Query Match 75.6%; Score 34; DB 2; Length 669;  
Best Local Similarity 62.5%; Pred. No. 1.2e+02;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 8  
Db 332 FAYKDLVI 339

RESULT 9  
US-09-862-027-27  
; Sequence 27, Application US/09862027  
; Patent No. 6858418  
; GENERAL INFORMATION:  
; APPLICANT: Hodge, Martin R.  
; TITLE OF INVENTION: No. 6858418el Kinases and Uses Thereof  
; FILE REFERENCE: 35800/234862  
; CURRENT APPLICATION NUMBER: US/09/862,027  
; CURRENT FILING DATE: 2001-05-21  
; PRIOR APPLICATION NUMBER: US 09/345,473  
; PRIOR FILING DATE: 1999-06-30  
; NUMBER OF SEQ ID NOS: 82  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 27  
; LENGTH: 669  
; TYPE: PRT  
; ORGANISM: Arabidopsis thaliana  
US-09-862-027-27

Query Match 75.6%; Score 34; DB 2; Length 669;

Best Local Similarity 62.5%; Pred. No. 1.2e+02;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 8  
Db 332 FAYKDLVI 339

RESULT 10  
US-08-787-547-103  
; Sequence 103, Application US/08787547  
; Patent No. 5783567  
; GENERAL INFORMATION:  
; APPLICANT: Hedley, Mary Lynne  
; APPLICANT: Curley, Joanne M.  
; APPLICANT: Langer, Robert S.  
; TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY  
; TITLE OF INVENTION: OF NUCLEIC ACID  
; NUMBER OF SEQUENCES: 107  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fish & Richardson, P.C.  
; STREET: 225 Franklin Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: US  
; ZIP: 02110-2804  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: Windows95  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/787,547  
; FILING DATE: 22-JAN-1997  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fraser, Janis K.  
; REGISTRATION NUMBER: 34,819  
; REFERENCE/DOCKET NUMBER: 08191/003001  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-542-5070  
; TELEFAX: 617-542-8906  
; TELEX: 200154  
; INFORMATION FOR SEQ ID NO: 103:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 9 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-787-547-103

Query Match 73.3%; Score 33; DB 1; Length 9;  
Best Local Similarity 66.7%; Pred. No. 4.6e+05;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 9  
Db 1 FAFKDLFV 9

RESULT 11  
US-08-197-484-67  
; Sequence 67, Application US/08197484  
; Patent No. 6419931  
; GENERAL INFORMATION:  
; APPLICANT: VITTELLO, Maria A.  
; APPLICANT: CHESTNUT, Robert W.  
; APPLICANT: SETTE, Alessandro D.  
; APPLICANT: CELIS, Esterban  
; APPLICANT: GRAY, Howard

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ELICITING  
TITLE OF INVENTION: CTL IMMUNITY  
NUMBER OF SEQUENCES: 153  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend Kourie and Crew  
STREET: Steuart Street Tower, One Market Plaza  
CITY: San Francisco  
STATE: California  
COUNTRY: US  
ZIP: 94105-1493  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/197,484  
FILING DATE: 16-FEB-1994  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/935,811  
FILING DATE: 26-AUG-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/874,491  
FILING DATE: 27-APR-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/827,682  
FILING DATE: 29-JAN-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/749,568  
FILING DATE: 26-AUG-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: Parmelee, Steven W.  
REGISTRATION NUMBER: 31,990  
REFERENCE/DOCKET NUMBER: 14137-26-4  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 467-9600  
TELEFAX: (206) 623-6793  
INFORMATION FOR SEQ ID NO: 67:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 9 amino acids  
TYPE: amino acid  
STRANDEDNESS: unknown  
TOPOLOGY: unknown  
MOLECULE TYPE: peptide  
US-08-197-484-67  
Query Match 73.3%; Score 33; DB 2; Length 9;  
Best Local Similarity 66.7%; Pred. No. 4.6e+05;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;  
QY 1 FAFKDLFV 9  
DB 1 FAFKDLFV 9  
RESULT 12  
PCT-US95-02121-67  
Sequence 67, Application PC/TUS9502121  
GENERAL INFORMATION:  
APPLICANT:  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ELICITING  
TITLE OF INVENTION: CTL IMMUNITY  
NUMBER OF SEQUENCES: 153  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/02121  
FILING DATE: 16-FEB-1995  
CLASSIFICATION:

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/197,484  
FILING DATE: 16-FEB-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/935,811  
FILING DATE: 26-AUG-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/874,491  
FILING DATE: 27-APR-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/827,682  
FILING DATE: 29-JAN-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/749,568  
FILING DATE: 26-AUG-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: Parmelee, Steven W.  
REGISTRATION NUMBER: 31,990  
REFERENCE/DOCKET NUMBER: 14137-26-4PC  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 467-9600  
TELEFAX: (415) 543-5043  
INFORMATION FOR SEQ ID NO: 67:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 9 amino acids  
TYPE: amino acid  
STRANDEDNESS: unknown  
TOPOLOGY: unknown  
MOLECULE TYPE: peptide  
PCT-US95-02121-67  
Query Match 73.3%; Score 33; DB 4; Length 9;  
Best Local Similarity 66.7%; Pred. No. 4.6e+05;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;  
QY 1 FAFKDLFV 9  
DB 1 FAFKDLFV 9  
RESULT 13  
US-09-980-523A-6  
Sequence 6, Application US/09980523A  
Patent No. 6783763  
GENERAL INFORMATION:  
APPLICANT: CHOPPIN, JEANMINE  
APPLICANT: BOURGAULT VILLADA, ISABELLE  
APPLICANT: GUILLET, JERAN-GERARD  
APPLICANT: CONNAN, FRANCINE  
APPLICANT: FERRIES, ESTELLE  
TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 AND E7  
TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE  
TITLE OF INVENTION: PARTICULARLY IN VACCINATION  
FILE REFERENCE: WO/01/00105  
CURRENT APPLICATION NUMBER: US/09/980,523A  
CURRENT FILING DATE: 2002-04-29  
PRIOR APPLICATION NUMBER: PCT/FR00/01513  
PRIOR FILING DATE: 2000-05-31  
PRIOR APPLICATION NUMBER: FR 99/07012  
PRIOR FILING DATE: 1999-06-03  
NUMBER OF SEQ ID NOS: 24  
SOFTWARE: Patent Ver. 2.1  
SEQ ID NO 6  
LENGTH: 22  
TYPE: PRT  
ORGANISM: Human Papillomavirus  
US-09-980-523A-6  
Query Match 73.3%; Score 33; DB 2; Length 22;  
Best Local Similarity 66.7%; Pred. No. 5.4;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;  
QY 1 FAFKDLFV 9

Db 7 FAFRDLCTIV 15

RESULT 14  
US-09-601-729-276  
; Sequence 276, Application US/09601729  
; Patent No. 6663052  
; GENERAL INFORMATION:  
; APPLICANT: THIAM, KADER  
; APPLICANT: AURIAULT, CLAUDE  
; APPLICANT: GRAS-MASSIE, HELENE  
; APPLICANT: LOING, ESTELLE  
; APPLICANT: VERMAERDE, CLAUDE  
; APPLICANT: GUILLET, JEAN GERARD  
TITLE OF INVENTION: LIPOPEPTIDES CONTAINING AN INTERFERON FRAGMENT AND USES  
TITLE OF INVENTION: THEREOF IN PHARMACEUTICAL COMPOSITIONS  
FILE REFERENCE: US-97-AU-IN  
CURRENT FILING DATE: 2000-11-20  
PRIOR APPLICATION NUMBER: PCT/FR99/00259  
PRIOR FILING DATE: 1999-02-05  
PRIOR APPLICATION NUMBER: 98 01439  
PRIOR FILING DATE: 1998-02-06  
NUMBER OF SEQ ID NOS: 281  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 276  
LENGTH: 23  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
OTHER INFORMATION: peptide  
US-09-601-729-276

Query Match 73.3%; Score 33; DB 2; Length 23;  
Best Local Similarity 66.7%; Pred. No. 5.6;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFRDLCTIV 9  
Db 8 FAFRDLCTIV 16

RESULT 15  
US-09-701-080C-18  
; Sequence 18, Application US/09701080C  
; Patent No. 6864054  
; GENERAL INFORMATION:  
; APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY  
TITLE OF INVENTION: TRANSCRIPTIONAL REGULATION  
FILE REFERENCE: N73477C GCM  
CURRENT APPLICATION NUMBER: US/09/701.080C  
CURRENT FILING DATE: 2001-02-27  
PRIOR APPLICATION NUMBER: GB 9811303.8  
PRIOR FILING DATE: 1998-05-26  
PRIOR APPLICATION NUMBER: GB 9900157.0  
PRIOR FILING DATE: 1999-01-05  
NUMBER OF SEQ ID NOS: 36  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 18  
LENGTH: 151  
TYPE: PRT  
ORGANISM: Human papillomavirus  
US-09-701-080C-18

Query Match 73.3%; Score 33; DB 2; Length 151;  
Best Local Similarity 66.7%; Pred. No. 39;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;  
QY 1 FAFRDLCTIV 9

Db 45 FAFRDLCTIV 53

RESULT 16  
US-09-980-523A-2  
; Sequence 2, Application US/09980523A  
; Patent No. 6783763  
; GENERAL INFORMATION:  
; APPLICANT: CHOPPIN, JEANNINE  
; APPLICANT: BOURGAULT VILLADA, ISABELLE  
; APPLICANT: GUILLET, JEAN-GERARD  
; APPLICANT: CONNAN, FRANCINE  
; APPLICANT: FERRIER, ESTELLE  
TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 AND E7  
TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE  
FILE REFERENCE: WO1 AO INS  
CURRENT FILING DATE: 2002-04-29  
PRIOR APPLICATION NUMBER: PCT/FR00/01513  
PRIOR FILING DATE: 2000-05-31  
PRIOR APPLICATION NUMBER: FR 99/07012  
PRIOR FILING DATE: 1999-06-03  
NUMBER OF SEQ ID NOS: 24  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 2  
LENGTH: 158  
TYPE: PRT  
ORGANISM: Human Papillomavirus  
US-09-980-523A-2

Query Match 73.3%; Score 33; DB 2; Length 158;  
Best Local Similarity 66.7%; Pred. No. 41;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFRDLCTIV 9  
Db 52 FAFRDLCTIV 60

RESULT 17  
US-08-316-239B-3  
; Sequence 3, Application US/08316239B  
; Patent No. 5678509  
; GENERAL INFORMATION:  
; APPLICANT: Wheeler, Cosette M.  
; APPLICANT: Parmentier, Cheryl A.  
TITLE OF INVENTION: Methods and a Diagnostic Aid for  
TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an  
TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and  
NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Jagtland & Associates  
STREET: 6126 Rocky Way Court  
CITY: Centerville  
STATE: VA  
COUNTRY: USA  
ZIP: 20120-3400  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: IBM PC compatible  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/316,239B  
FILING DATE: 30-SEP-1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Jagtland, Ajay A.  
REGISTRATION NUMBER: 35,205  
REFERENCE/DOCKET NUMBER: UNME-0001  
TELECOMMUNICATION INFORMATION:



TELEPHONE: (703) 817-9453  
TELEFAX: (703) 803-9387  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 162 amino acids  
TYPE: amino acid  
STRANDEDNESS: not relevant  
TOPOLOGY: not relevant  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
US-08-316-239B-3

Query Match 73.3%; Score 33; DB 1; Length 162;  
Best Local Similarity 66.7%; Pred. No. 42;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLFV 9  
Db 52 FAFRDLCTV 60

RESULT 18  
US-08-316-239B-4  
Sequence 4, Application US/08316239B  
Patent No. 5679509  
GENERAL INFORMATION:  
APPLICANT: Wheeler, Cosette M.  
TITLE OF INVENTION: Method and a Diagnostic Aid for  
TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an  
TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and  
TITLE OF INVENTION: Cervical Cancer  
NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Jagtiani & Associates  
STREET: 6126 Rocky Way Court  
CITY: Centreville  
STATE: VA  
COUNTRY: USA  
ZIP: 20120-3400  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/316,239B  
FILING DATE: 30-SEP-1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Jagtiani, Ajay A.  
REGISTRATION NUMBER: 35,205  
REFERENCE/DOCKET NUMBER: UNME-0001  
TELEPHONE: (703) 817-9453  
TELEFAX: (703) 803-9387  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 162 amino acids  
TYPE: amino acid  
STRANDEDNESS: not relevant  
TOPOLOGY: not relevant  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
US-08-316-239B-4

Query Match 73.3%; Score 33; DB 1; Length 162;  
Best Local Similarity 66.7%; Pred. No. 42;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;  
QY 1 FAFKDLFV 9  
Db 52 FAFRDLCTV 60

RESULT 19  
US-08-860-165-14  
Sequence 14, Application US/08860165A  
Patent No. 6004557  
GENERAL INFORMATION:  
APPLICANT: EDWARDS, Scirling John  
APPLICANT: COX, John Cooper  
APPLICANT: WEBB, Elizabeth Ann  
APPLICANT: FRAZER, Ian  
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS  
FILE REFERENCE: 17227/110  
CURRENT APPLICATION NUMBER: US/08/860,165A  
CURRENT FILING DATE: 1997-09-22  
EARLIER APPLICATION NUMBER: PCT/AU95/00868  
EARLIER FILING DATE: 1995-12-20  
EARLIER APPLICATION NUMBER: AU PN0157  
EARLIER FILING DATE: 1994-12-20  
NUMBER OF SEQ ID NOS: 15  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 14  
LENGTH: 172  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion  
US-08-860-165-14

Query Match 73.3%; Score 33; DB 2; Length 172;  
Best Local Similarity 66.7%; Pred. No. 45;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLFV 9  
Db 121 FAFRDLCTV 129

RESULT 20  
US-09-359-382-14  
Sequence 14, Application US/09359382  
Patent No. 6306397  
GENERAL INFORMATION:  
APPLICANT: EDWARDS, Scirling John  
APPLICANT: COX, John Cooper  
APPLICANT: WEBB, Elizabeth Ann  
APPLICANT: FRAZER, Ian  
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS  
FILE REFERENCE: 017227/0148  
CURRENT APPLICATION NUMBER: US/09/359,382  
CURRENT FILING DATE: 1999-07-23  
EARLIER APPLICATION NUMBER: US 08/860,165  
EARLIER FILING DATE: 1997-09-22  
EARLIER APPLICATION NUMBER: PCT/AU95/00868  
EARLIER FILING DATE: 1995-12-20  
EARLIER APPLICATION NUMBER: AU PN0157/94  
EARLIER FILING DATE: 1994-12-20  
NUMBER OF SEQ ID NOS: 27  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 14  
LENGTH: 172  
TYPE: PRT  
ORGANISM: Human papillomavirus type 16  
US-09-359-382-14

Query Match 73.3%; Score 33; DB 2; Length 172;  
Best Local Similarity 66.7%; Pred. No. 45;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;  
QY 1 FAFKDLFV 9  
Db 121 FAFRDLCTV 129

```
RESULT 21
US-09-462-993-1
; Sequence 1, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BALLOU, Jean-Marc
; APPLICANT: BIZOUANE, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/09/462,993
; PRIOR FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: Patentin Ver. 2.2
; SEQ ID NO 1
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Derived from
; OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
; OTHER INFORMATION: fused F protein signals, clone E6*TWf.
US-09-462-993-1
```

```
Query Match          73.3%; Score 33; DB 2; Length 243;
Best Local Similarity 66.7%; Pred. No. 65;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 FAFKDLFVV 9
Db 80 FAFRDLCTIV 88
```

```
RESULT 22
US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/1130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; PRIOR FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10
```

```
Query Match          73.3%; Score 33; DB 2; Length 266;
Best Local Similarity 66.7%; Pred. No. 71;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 FAFKDLFVV 9
Db 52 FAFRDLCTIV 60
```

```
RESULT 23
US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; PRIOR FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-10
```

```
Query Match          73.3%; Score 33; DB 2; Length 266;
Best Local Similarity 66.7%; Pred. No. 71;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 FAFKDLFVV 9
Db 52 FAFRDLCTIV 60
```

```
RESULT 24
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; PRIOR FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1
```

```
Query Match          73.3%; Score 33; DB 2; Length 266;
Best Local Similarity 66.7%; Pred. No. 71;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 FAFKDLFVV 9
Db 52 FAFRDLCTIV 60
```

```
RESULT 25
US-09-485-885-4
; Sequence 4, Application US/09485885
```

```
Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-4

Query Match      73.3%; Score 33; DB 2; Length 273;
Best Local Similarity 66.7%; Pred. No. 73;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 FAFKDLFVY 9
DB 158 FAFRDLCTV 166
```

```
RESULT 26
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-10
```

```
Query Match      73.3%; Score 33; DB 2; Length 292;
Best Local Similarity 66.7%; Pred. No. 78;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 FAFKDLFVY 9
DB 177 FAFRDLCTV 185
```

```
RESULT 27
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
```

```
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-6
```

```
Query Match      73.3%; Score 33; DB 2; Length 371;
Best Local Similarity 66.7%; Pred. No. 1e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 FAFKDLFVY 9
DB 158 FAFRDLCTV 166
```

```
RESULT 28
US-09-485-885-14
; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-14
```

```
Query Match      73.3%; Score 33; DB 2; Length 390;
Best Local Similarity 66.7%; Pred. No. 1.1e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 FAFKDLFVY 9
DB 177 FAFRDLCTV 185
```

```
RESULT 29
US-09-270-767-60100
; Sequence 60100, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
```

```

; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentn Ver. 2.0
; SEQ ID NO 60100
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-60100

Query Match      71.1%; Score 32; DB 2; Length 99;
Best Local Similarity 75.0%; Pred. No. 40;
Matches 6; Conservative 1; Indels 0; Gaps 0;

Qy      2 AFKDLFV 9
Db      31 AFKDLIV 38

RESULT 30
US-09-248-796A-14111
; Sequence 14111, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; PRIOR FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 14111
; LENGTH: 175
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-14111

Query Match      71.1%; Score 32; DB 2; Length 175;
Best Local Similarity 85.7%; Pred. No. 72;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      2 AFKDLFV 8
Db      113 SFKDLFV 119

RESULT 31
US-08-117-083-10
; Sequence 10, Application US/08117083
; Patent No. 5719054
; GENERAL INFORMATION:
; APPLICANT: Boursnell, Michael E.
; APPLICANT: Ingils, Stephen C.
; APPLICANT: Munro, Alan J.
; TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human
; TITLE OF INVENTION: Papilloma Virus Proteins
; NUMBER OF SEQUENCES: 70
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Walter H. Dreger
; STREET: 4 Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
```

```

; APPLICATION NUMBER: US/08/117,083
; FILING DATE: 10-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Dreger, Walter H.
; REGISTRATION NUMBER: 24,190
; REFERENCE/DOCKET NUMBER: A-58783
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-781-1989
; TELEFAX: 415-398-3249
; TELEX: 910 277299
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 182 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..182
; OTHER INFORMATION: /note="Xaa refers to stop codon in
; OTHER INFORMATION: the open reading frame."
US-08-117-083-10

Query Match      71.1%; Score 32; DB 1; Length 182;
Best Local Similarity 55.6%; Pred. No. 75;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy      1 FAFKDLFV 9
Db      53 FAFKDLII 61

RESULT 32
US-09-562-737-6
; Sequence 6, Application US/09562737
; Patent No. 6428967
; GENERAL INFORMATION:
; APPLICANT: Herz, Joachim
; APPLICANT: Gotthardt, Michael
; TITLE OF INVENTION: LDL Receptor Signaling Pathways
; FILE REFERENCE: UTSW0708
; CURRENT APPLICATION NUMBER: US/09/562,737
; CURRENT FILING DATE: 2000-05-01
; NUMBER OF SEQ ID NOS: 132
; SOFTWARE: Patentn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 333
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-562-737-6

Query Match      71.1%; Score 32; DB 2; Length 333;
Best Local Similarity 75.0%; Pred. No. 1,4e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy      1 FAFKDLFV 8
Db      311 FAFKDLFV 318

RESULT 33
US-09-562-737-9
; Sequence 9, Application US/09562737
; Patent No. 6428967
; GENERAL INFORMATION:
; APPLICANT: Herz, Joachim
; APPLICANT: Gotthardt, Michael
; TITLE OF INVENTION: LDL Receptor Signaling Pathways
```

```
FILE REFERENCE: UTSW0708
CURRENT APPLICATION NUMBER: US/09/562,737
CURRENT FILING DATE: 2000-05-01
NUMBER OF SEQ ID NOS: 132
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 9
LENGTH: 333
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-562-737-9

Query Match      71.1%; Score 32; DB 2; Length 333;
Best Local Similarity 77.8%; Pred. No. 1.4e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 FAFKDLFV 9
      ||| |||
Db      311 FAFPFDFV 319

RESULT 34
US-09-270-767-44648
Sequence 44648, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 44648
LENGTH: 401
TYPE: PRT
ORGANISM: Drosophila melanogaster
FEATURE:
OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-44648

Query Match      71.1%; Score 32; DB 2; Length 401;
Best Local Similarity 75.0%; Pred. No. 1.7e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 AFDKLFV 9
      ||| |||
Db      31 AFDLVI 38

RESULT 35
US-09-328-352-6968
Sequence 6968, Application US/09328352
Patent No. 6562958
GENERAL INFORMATION:
APPLICANT: Gary L. Breton et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
FILE REFERENCE: GTC99-03PA
CURRENT APPLICATION NUMBER: US/09/328,352
CURRENT FILING DATE: 1999-06-04
NUMBER OF SEQ ID NOS: 8252
SEQ ID NO 6968
LENGTH: 502
TYPE: PRT
ORGANISM: Acinetobacter baumannii
US-09-328-352-6968

Query Match      71.1%; Score 32; DB 2; Length 502;
Best Local Similarity 62.5%; Pred. No. 2.1e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

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QY      1 FAFKDLFV 8
      ||| |||
Db      251 FSPKELFV 258

RESULT 36
US-09-107-532A-7133
Sequence 7133, Application US/09107532A
Patent No. 6583275
GENERAL INFORMATION:
APPLICANT: Lynn A Doucetle-Stamm and David Bush
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 7310
CORRESPONDENCE ADDRESS:
ADDRESS: GENOME THERAPEUTICS CORPORATION
STREET: 100 Beaver Street
CITY: Waltham
STATE: Massachusetts
COUNTRY: USA
ZIP: 02354
COMPUTER READABLE FORM:
MEDIUM TYPE: CD-ROM ISO9660
COMPUTER: PC
OPERATING SYSTEM: <Unknown>
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/107,532A
FILING DATE: 30-Jun-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/085,598
FILING DATE: 14 May 1998
APPLICATION NUMBER: 60/051571
FILING DATE: July 2, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Ariniello, Pamela Deneke
REGISTRATION NUMBER: 40,489
REFERENCE/DOCKET NUMBER: GTC-012
TELECOMMUNICATION INFORMATION:
TELEPHONE: (781)893-5007
TELEFAX: (781)893-8277
INFORMATION FOR SEQ ID NO: 7133:
SEQUENCE CHARACTERISTICS:
LENGTH: 126 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ORIGINAL SOURCE:
ORGANISM: Enterococcus faecium
FEATURE:
NAME/KEY: misc feature
LOCATION: (B) LOCATION 1...126
SEQUENCE DESCRIPTION: SEQ ID NO: 7133:
US-09-107-532A-7133

Query Match      68.9%; Score 31; DB 2; Length 126;
Best Local Similarity 71.4%; Pred. No. 81;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      2 AFDKLFV 8
      ||| |||
Db      74 AFDLVI 80

RESULT 37
US-09-605-703B-2388
Sequence 2388, Application US/09605703B
Patent No. 6962989
GENERAL INFORMATION:
APPLICANT: Pompejus, Markus
APPLICANT: Kroger, Burkhard
```

APPLICANT: Schroder, Hartwig  
APPLICANT: Zelder, Oskar  
APPLICANT: Habermann, Gregor  
TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING NOVEL  
FILE REFERENCE: BGI-129CP  
CURRENT FILING DATE: 2000-06-27  
CURRENT APPLICATION NUMBER: US/09/605,703B  
PRIOR FILING DATE: 1997-07-22  
PRIOR FILING DATE: 1999-07-08  
PRIOR APPLICATION NUMBER: 60/152,318  
PRIOR FILING DATE: 1999-09-03  
NUMBER OF SEQ ID NOS: 2934  
SEQ ID NO 2388  
LENGTH: 233  
TYPE: PRT  
ORGANISM: Corynebacterium glutamicum  
US-09-605-703B-2388

Query Match 68.9%; Score 31; DB 2; Length 233;  
Best Local Similarity 100.0%; Pred. No. 1.5e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 3 AFKDLFV 8  
Db 10 AFKDLFV 15

RESULT 38  
US-09-830-230A-616  
Sequence 616, Application US/09830230A  
Patent No. 6902893  
GENERAL INFORMATION:  
APPLICANT: Human Genome Sciences, Inc.  
TITLE OF INVENTION: Lyme Disease Vaccines  
FILE REFERENCE: PB481US  
CURRENT APPLICATION NUMBER: US/09/830,230A  
CURRENT FILING DATE: 2001-09-27  
PRIOR APPLICATION NUMBER: PCT/US98/12718  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/057,483  
PRIOR FILING DATE: 1997-09-03  
PRIOR APPLICATION NUMBER: 60/053,344  
PRIOR FILING DATE: 1997-07-22  
PRIOR APPLICATION NUMBER: 60/053,377  
PRIOR FILING DATE: 1997-07-22  
PRIOR APPLICATION NUMBER: 60/050,359  
PRIOR FILING DATE: 1997-06-20  
NUMBER OF SEQ ID NOS: 756  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 616  
LENGTH: 235  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-830-230A-616

Query Match 68.9%; Score 31; DB 2; Length 235;  
Best Local Similarity 100.0%; Pred. No. 1.5e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 2 AFKDLF 7  
Db 84 AFKDLF 89

RESULT 39  
US-09-830-230A-615  
Sequence 615, Application US/09830230A  
Patent No. 6902893  
GENERAL INFORMATION:  
APPLICANT: Human Genome Sciences, Inc.  
TITLE OF INVENTION: Lyme Disease Vaccines  
FILE REFERENCE: PB481US

CURRENT APPLICATION NUMBER: US/09/830,230A  
CURRENT FILING DATE: 2001-09-27  
PRIOR APPLICATION NUMBER: PCT/US98/12718  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/057,483  
PRIOR FILING DATE: 1997-09-03  
PRIOR APPLICATION NUMBER: 60/053,344  
PRIOR FILING DATE: 1997-07-22  
PRIOR APPLICATION NUMBER: 60/053,377  
PRIOR FILING DATE: 1997-07-22  
PRIOR APPLICATION NUMBER: 60/050,359  
PRIOR FILING DATE: 1997-06-20  
NUMBER OF SEQ ID NOS: 756  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 615  
LENGTH: 274  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-830-230A-615

Query Match 68.9%; Score 31; DB 2; Length 274;  
Best Local Similarity 100.0%; Pred. No. 1.8e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 2 AFKDLF 7  
Db 112 AFKDLF 117

RESULT 40  
US-09-248-796A-17597  
Sequence 17597, Application US/09248796A  
Patent No. 6747137  
GENERAL INFORMATION:  
APPLICANT: Keith Weinstock et al  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS  
FILE REFERENCE: 107196.132  
CURRENT APPLICATION NUMBER: US/09/248,796A  
CURRENT FILING DATE: 1999-02-12  
PRIOR APPLICATION NUMBER: US 60/074,725  
PRIOR FILING DATE: 1998-02-13  
PRIOR APPLICATION NUMBER: US 60/096,409  
PRIOR FILING DATE: 1998-08-13  
NUMBER OF SEQ ID NOS: 28208  
SEQ ID NO 17597  
LENGTH: 307  
TYPE: PRT  
ORGANISM: Candida albicans  
US-09-248-796A-17597

Query Match 68.9%; Score 31; DB 2; Length 307;  
Best Local Similarity 85.7%; Pred. No. 2e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy 1 FAFKDLF 7  
Db 92 FAFKDLF 98

RESULT 41  
US-09-107-433-4666  
Sequence 4666, Application US/09107433  
Patent No. 6800744  
GENERAL INFORMATION:  
APPLICANT: Lynn A Doucette-Stamm and David Bush  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID  
SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE FOR DIAGNOSIS  
THERAPEUTICS  
NUMBER OF SEQUENCES: 5206  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: GENOME THERAPEUTICS CORPORATION  
STREET: 100 Beaver Street

CITY: Waltham  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02354  
COMPUTER READABLE FORM:  
MEDIUM TYPE: CD-ROM ISO9660  
COMPUTER: <Unknown>  
OPERATING SYSTEM: <Unknown>  
SOFTWARE: <Unknown>  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/107,433  
FILING DATE: 30-Jun-1998  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/085131  
FILING DATE: May 12, 1998  
APPLICATION NUMBER: 60/051553  
FILING DATE: July 2, 1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Atinleilo, Pamela Deneke  
REGISTRATION NUMBER: 40,489  
REFERENCE/DOCKET NUMBER: GTC-011  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (781)893-5007  
TELEFAX: (781)893-8277  
INFORMATION FOR SEQ ID NO: 4666:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 338 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: YES  
ORIGINAL SOURCE:  
ORGANISM: Streptococcus pneumoniae  
FEATURE:  
NAME/KEY: misc.feature  
LOCATION: (B) LOCATION 1...338  
SEQUENCE DESCRIPTION: SEQ ID NO: 4666:  
US-09-107-433-4666  
Query Match 68.9%; Score 31; DB 2; Length 338;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 3 FKDLFV 8  
DB 189 FKDLFV 194  
RESULT 42  
US-09-270-767-45247  
Sequence 45247, Application US/09270767  
Patent No. 6703491  
GENERAL INFORMATION:  
APPLICANT: Homburger et al.  
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
FILE REFERENCE: File Reference: 7326-094  
CURRENT APPLICATION NUMBER: US/09/270,767  
CURRENT FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 62517  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 45247  
LENGTH: 370  
TYPE: PRT  
ORGANISM: Drosophila melanogaster  
FEATURE:  
OTHER INFORMATION: Xaa means any amino acid  
US-09-270-767-45247  
Query Match 68.9%; Score 31; DB 2; Length 370;  
Best Local Similarity 75.0%; Pred. No. 2.5e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
QY 1 FAFDLFV 8

DB 191 FAYKDFV 198  
RESULT 43  
US-09-583-110-4693  
Sequence 4693, Application US/09583110  
Patent No. 6659703  
GENERAL INFORMATION:  
APPLICANT: Lynn Doucette-Stamm et al.  
TITLE OF INVENTION: Nucleic Acid Sequences Relating to Streptococcus  
FILE REFERENCE: PATH00-07A  
CURRENT APPLICATION NUMBER: US/09/583,110  
CURRENT FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: US 09/107,433  
PRIOR FILING DATE: 1998-06-30  
PRIOR APPLICATION NUMBER: US 60/085,131  
PRIOR FILING DATE: 1998-05-12  
PRIOR APPLICATION NUMBER: US 60/051,553  
PRIOR FILING DATE: 1997-07-02  
NUMBER OF SEQ ID NOS: 5322  
SEQ ID NO 4693  
LENGTH: 440  
TYPE: PRT  
ORGANISM: Streptococcus pneumoniae  
US-09-583-110-4693  
Query Match 68.9%; Score 31; DB 2; Length 440;  
Best Local Similarity 100.0%; Pred. No. 2.9e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 3 FKDLFV 8  
DB 291 FKDLFV 296  
RESULT 44  
US-09-991-181-160  
Sequence 160, Application US/09991181  
Patent No. 6913919  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Geider, Hanspeter  
APPLICANT: Gerltsen, Mary B.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Guiney, Austin L.  
APPLICANT: Kijavlin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C53  
CURRENT APPLICATION NUMBER: US/09/991,181  
CURRENT FILING DATE: 2001-11-16  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16





PRIOR APPLICATION NUMBER: 60/090863  
PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/091360  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091478  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091544  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091519  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 68.9%; Score 31; DB 2; Length 556;  
Best Local Similarity 100.0%; Pred. No. 3.8e+02; Indels 0; Gaps 0;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 3 FKDLFV 8  
Db 139 FKDLFV 144

RESULT 45  
US-09-990-444-160  
Sequence 160; Application US/09990444  
Patent No. 6930170

GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gertlesen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, V. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kijavlin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C19  
CURRENT APPLICATION NUMBER: US/09/990,444  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770

PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/084600  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/087106  
PRIOR FILING DATE: 1998-05-28  
PRIOR APPLICATION NUMBER: 60/087607  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087609  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087759  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087827  
PRIOR FILING DATE: 1998-06-03  
PRIOR APPLICATION NUMBER: 60/088021  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088025  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088026  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088028  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088029  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088030  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088033  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088326  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088167  
PRIOR FILING DATE: 1998-06-05  
PRIOR APPLICATION NUMBER: 60/088202  
PRIOR FILING DATE: 1998-06-05  
PRIOR APPLICATION NUMBER: 60/088212  
PRIOR FILING DATE: 1998-06-05  
PRIOR APPLICATION NUMBER: 60/088217  
PRIOR FILING DATE: 1998-06-05  
PRIOR APPLICATION NUMBER: 60/088655  
PRIOR FILING DATE: 1998-06-09  
PRIOR APPLICATION NUMBER: 60/088734  
PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088738  
PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088742  
PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088810  
PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088824  
PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088826  
PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088858  
PRIOR FILING DATE: 1998-06-11  
PRIOR APPLICATION NUMBER: 60/088861  
PRIOR FILING DATE: 1998-06-11  
PRIOR APPLICATION NUMBER: 60/088876  
PRIOR FILING DATE: 1998-06-11  
PRIOR APPLICATION NUMBER: 60/089105  
PRIOR FILING DATE: 1998-06-12  
PRIOR APPLICATION NUMBER: 60/089440  
PRIOR FILING DATE: 1998-06-16  
PRIOR APPLICATION NUMBER: 60/089512  
PRIOR FILING DATE: 1998-06-16  
PRIOR APPLICATION NUMBER: 60/089514  
PRIOR FILING DATE: 1998-06-16  
PRIOR APPLICATION NUMBER: 60/089532  
PRIOR FILING DATE: 1998-06-17

PRIOR APPLICATION NUMBER: 60/089538  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089598  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089599  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089600  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089653  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089801  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089907  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089908  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089947  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/089948  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/089952  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/090246  
PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090252  
PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090254  
PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090349  
PRIOR FILING DATE: 1998-06-23  
PRIOR APPLICATION NUMBER: 60/090355  
PRIOR FILING DATE: 1998-06-23  
PRIOR APPLICATION NUMBER: 60/090429  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090431  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090435  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090444  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090445  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090472  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090535  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090540  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090542  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090557  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090676  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090678  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090690  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090694  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090695  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090696  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090862  
PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/090863  
PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/091360  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091478  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091544

PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091519  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 68.9%; Score 31; DB 2; Length 556;  
Best Local Similarity 100.0%; Pred. No. 3.8e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 FKDLFV 8  
Db 139 FKDLFV 144

RESULT 46  
US-09-997-333-160  
Sequence 160, Application US/09997333  
Patent No. 6953836  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Denoyers, Luc  
APPLICANT: Baton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerlitsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730PLC27  
CURRENT APPLICATION NUMBER: US/09/997,333  
CURRENT FILING DATE: 2001-11-15  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28



;; PRIOR APPLICATION NUMBER: 60/091978  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/091982  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/092182  
;; PRIOR FILING DATE: 1998-07-09

Query March 68.9%; Score 31; DB 2; Length 556;  
Best Local Similarity 100.0%; Pred. No. 3.8e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 FKDLFV 8  
Db 139 FKDLFV 144

RESULT 47  
US-09-992-598-160  
; Sequence 160, Application US/09992598  
; Patent No. 6956108  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Deemoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Activated and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2730P1C20  
; CURRENT APPLICATION NUMBER: US/09/992,598  
; CURRENT FILING DATE: 2001-11-14  
; PRIOR APPLICATION NUMBER: 60/049787  
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; PRIOR FILING DATE: 1998-04-28  
; PRIOR APPLICATION NUMBER: 60/084600  
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;; PRIOR FILING DATE: 1998-06-18

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PRIOR APPLICATION NUMBER: 60/091360  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091478  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091544  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091519  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 68.9%; Score 31; DB 2; Length 556;  
Best Local Similarity 100.0%; Pred. No. 3.8e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 FKDLFV 8  
DB 139 FKDLFV 144

RESULT 48  
US-09-902-540-15502  
Sequence 15502, Application US/09902540  
Patent No. 6833447  
GENERAL INFORMATION:  
APPLICANT: Goldman, Barry S.  
APPLICANT: Hinkle, Gregory J.  
APPLICANT: Slater, Steven C.  
APPLICANT: Miegand, Roger C.  
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof  
FILE REFERENCE: 38-10(115849)B  
CURRENT FILING DATE: 2001-07-10  
PRIOR APPLICATION NUMBER: 60/217,883  
PRIOR FILING DATE: 2000-07-10  
NUMBER OF SEQ ID NOS: 16825  
SEQ ID NO 15502  
LENGTH: 560  
TYPE: PRT  
ORGANISM: Myxococcus xanthus  
US-09-902-540-15502

Query Match 68.9%; Score 31; DB 2; Length 560;  
Best Local Similarity 100.0%; Pred. No. 3.8e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 AFKDLF 7  
DB 259 AFKDLF 264

RESULT 49  
US-09-949-016-11325  
Sequence 11325, Application US/09949016  
Patent No. 6812339  
GENERAL INFORMATION:  
APPLICANT: VENTER, J. Craig et al.  
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
FILE REFERENCE: CLO01307  
CURRENT APPLICATION NUMBER: US/09/949,016  
CURRENT FILING DATE: 2000-04-14  
PRIOR APPLICATION NUMBER: 60/241,755  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/237,768  
PRIOR FILING DATE: 2000-10-03  
PRIOR APPLICATION NUMBER: 60/231,498  
PRIOR FILING DATE: 2000-09-08  
NUMBER OF SEQ ID NOS: 207012  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 11325  
LENGTH: 574  
TYPE: PRT  
ORGANISM: Human  
US-09-949-016-11325

Query Match 68.9%; Score 31; DB 2; Length 574;  
Best Local Similarity 100.0%; Pred. No. 3.9e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 FKDLFV 8  
DB 157 FKDLFV 162

RESULT 50  
US-08-464-531-114  
Sequence 114, Application US/08464531  
Patent No. 5789184  
GENERAL INFORMATION:  
APPLICANT: FOWLES, Dana M.  
APPLICANT: BROACH, Jim  
APPLICANT: MANFREDI, John  
APPLICANT: KLEIN, Christine  
APPLICANT: MURPHY, Andrew J.  
APPLICANT: PAUL, Jeremy  
APPLICANT: TRUEHEART, Joshua  
TITLE OF INVENTION: YEAST CELLS ENGINEERED TO PRODUCE  
NUMBER OF SEQUENCES: 119  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: BROWDY AND NEIMARK  
STREET: 419 Seventh Street, N.W., Suite 300  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20004  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/464,531  
FILING DATE: 05-JUN-1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/322,137  
FILING DATE: 13-OCT-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/309,313  
FILING DATE: 20-SEP-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/190,328  
FILING DATE: 31-JAN-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/041,431  
FILING DATE: 31-MAR-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: COOPER, Iver P.  
REGISTRATION NUMBER: 28,005  
REFERENCE/DOCKET NUMBER: FOLWRES=2G  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-628-5197  
TELEFAX: 202-737-3528  
TELEX: 248633  
INFORMATION FOR SEQ ID NO: 114:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 62 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-464-531-114

Query March 66.7%; Score 30; DB 1; Length 62;  
Best Local Similarity 71.4%; Pred. No. 61;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
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Db 12 FTFKDLV 18

Search completed: May 5, 2006, 06:23:54  
Job time : 26.9 secs

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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:39:55 ; Search time 56.3 Seconds  
(without alignments)  
66.793 Million cell updates/sec

Title: US-08-170-344-27  
Perfect score: 45  
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Gapop 10.0 , Gapext 0.5

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Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0  
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Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
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SUMMARIES

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7	45	100.0	383	5	US-10-899-771-23
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83	32	71.1	307	5	US-10-320-797-311500	Sequence 311500,
84	32	71.1	310	4	US-10-425-115-311500	Sequence 311500,
85	32	71.1	313	4	US-10-211-962-6	Sequence 6, App1
86	32	71.1	333	4	US-10-211-962-9	Sequence 9, App1
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312	31	68.9	556	4	US-10-176-488-136	Sequence 136, App	385	31	68.9	556	4	US-10-187-588-136	Sequence 136, App
313	31	68.9	556	4	US-10-176-492-136	Sequence 136, App	386	31	68.9	556	4	US-10-187-597-136	Sequence 136, App
314	31	68.9	556	4	US-10-176-747-136	Sequence 136, App	387	31	68.9	556	4	US-10-187-598-136	Sequence 136, App
315	31	68.9	556	4	US-10-176-750-136	Sequence 136, App	388	31	68.9	556	4	US-10-187-601-136	Sequence 136, App
316	31	68.9	556	4	US-10-176-988-136	Sequence 136, App	389	31	68.9	556	4	US-10-187-600-136	Sequence 136, App
317	31	68.9	556	4	US-10-176-998-136	Sequence 136, App	390	31	68.9	556	4	US-10-187-601-136	Sequence 136, App
318	31	68.9	556	4	US-10-176-992-136	Sequence 136, App	391	31	68.9	556	4	US-10-187-600-136	Sequence 136, App
319	31	68.9	556	4	US-10-176-993-136	Sequence 136, App	392	31	68.9	556	4	US-10-187-602-136	Sequence 136, App

393	31	68.9	556	4	US-10-187-603-136	Sequence 136, App	466	31	68.9	556	4	US-10-188-780-136	Sequence 136, App
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395	31	68.9	556	4	US-10-187-743-136	Sequence 136, App	468	31	68.9	556	4	US-10-194-394-136	Sequence 136, App
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598	31	68.9	556	4	US-10-188-766-136	Sequence 136, App	671	31	68.9	556	4	US-10-207-911-136	Sequence 136, App
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871	31	68.9	556	4	US-10-063-646-24	Sequence 24, Appl	944	31	68.9	556	4	US-10-201-853-136	Sequence 136, App
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874	31	68.9	556	4	US-10-063-659-24	Sequence 24, Appl	947	31	68.9	556	4	US-10-206-916-136	Sequence 136, App
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876	31	68.9	556	4	US-10-063-528-24	Sequence 24, Appl	949	31	68.9	556	5	US-10-490-064-48	Sequence 48, Appl
877	31	68.9	556	4	US-10-063-540-24	Sequence 24, Appl	950	31	68.9	556	5	US-10-183-001-136	Sequence 136, App
878	31	68.9	556	4	US-10-063-568-24	Sequence 24, Appl	951	31	68.9	556	5	US-10-950-374-160	Sequence 160, App
879	31	68.9	556	4	US-10-063-570-24	Sequence 24, Appl	952	31	68.9	556	5	US-10-175-749-136	Sequence 136, App
880	31	68.9	556	4	US-10-063-582-24	Sequence 24, Appl	953	31	68.9	556	5	US-10-180-554-136	Sequence 136, App
881	31	68.9	556	4	US-10-063-587-24	Sequence 24, Appl	954	31	68.9	557	4	US-10-055-569A-73	Sequence 73, Appl
882	31	68.9	556	4	US-10-063-592-24	Sequence 24, Appl	955	31	68.9	557	4	US-10-055-569A-74	Sequence 74, Appl
883	31	68.9	556	4	US-10-063-597-24	Sequence 24, Appl	956	31	68.9	557	4	US-10-267-502-275	Sequence 275, App
884	31	68.9	556	4	US-10-063-602-24	Sequence 24, Appl	957	31	68.9	557	4	US-10-437-963-139769	Sequence 139769, App
885	31	68.9	556	4	US-10-063-606-24	Sequence 24, Appl	958	31	68.9	605	4	US-10-437-963-135251	Sequence 135251, App
886	31	68.9	556	4	US-10-063-609-24	Sequence 24, Appl	959	31	68.9	637	4	US-10-437-963-167687	Sequence 167687, App
887	31	68.9	556	4	US-10-063-611-24	Sequence 24, Appl	960	31	68.9	673	4	US-10-437-963-167795	Sequence 167795, App
888	31	68.9	556	4	US-10-063-614-24	Sequence 24, Appl	961	31	68.9	673	4	US-10-437-963-190925	Sequence 190925, App
889	31	68.9	556	4	US-10-063-639-24	Sequence 24, Appl	962	31	68.9	674	4	US-10-437-963-190925	Sequence 190925, App
890	31	68.9	556	4	US-10-063-643-24	Sequence 24, Appl	963	31	68.9	674	4	US-10-437-963-190925	Sequence 190925, App
891	31	68.9	556	4	US-10-063-646-24	Sequence 24, Appl	964	31	68.9	680	4	US-10-437-963-190925	Sequence 190925, App
892	31	68.9	556	4	US-10-063-651-24	Sequence 24, Appl	965	31	68.9	681	4	US-10-437-963-190925	Sequence 190925, App
893	31	68.9	556	4	US-10-063-653-24	Sequence 24, Appl	966	31	68.9	681	4	US-10-437-963-190925	Sequence 190925, App
894	31	68.9	556	4	US-10-063-655-24	Sequence 24, Appl	967	31	68.9	683	4	US-10-437-963-147284	Sequence 147284, App
895	31	68.9	556	4	US-10-063-660-24	Sequence 24, Appl	968	31	68.9	835	4	US-10-437-963-147284	Sequence 147284, App
896	31	68.9	556	4	US-10-063-684-24	Sequence 24, Appl	969	31	68.9	1001	4	US-10-437-963-119167	Sequence 119167, App
897	31	68.9	556	4	US-10-063-584-24	Sequence 24, Appl	970	31	68.9	1311	4	US-10-366-493-1718	Sequence 1718, App
898	31	68.9	556	4	US-10-063-536-24	Sequence 24, Appl	971	31	68.9	1459	4	US-10-437-963-112871	Sequence 112871, App
899	31	68.9	556	4	US-10-063-562-24	Sequence 24, Appl	972	31	68.9	1518	4	US-10-437-963-112871	Sequence 112871, App
900	31	68.9	556	4	US-10-063-638-24	Sequence 24, Appl	973	31	68.9	35	4	US-10-767-701-53603	Sequence 53603, App
901	31	68.9	556	4	US-10-063-666-24	Sequence 24, Appl	974	30	66.7	57	3	US-09-864-408A-6492	Sequence 6492, App
902	31	68.9	556	4	US-10-063-672-24	Sequence 24, Appl	975	30	66.7	61	4	US-10-767-701-61527	Sequence 61527, App
903	31	68.9	556	4	US-10-063-682-24	Sequence 24, Appl	976	30	66.7	62	3	US-09-300-106-114	Sequence 114, App

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977 30 66.7 62 4 US-10-263-341-114 Sequence 114, App
978 30 66.7 62 4 US-10-600-003-114 Sequence 114, App
979 30 66.7 120 3 US-09-864-408A-8898 Sequence 8898, Ap
980 30 66.7 129 4 US-10-437-963-158594 Sequence 158594, A
981 30 66.7 132 4 US-10-767-701-60601 Sequence 60601, A
982 30 66.7 133 5 US-10-732-923-8042 Sequence 8042, A
983 30 66.7 139 4 US-10-767-701-38883 Sequence 38883, A
984 30 66.7 144 4 US-10-425-115-237649 Sequence 237649, A
985 30 66.7 146 3 US-09-893-737-42 Sequence 42, App1
986 30 66.7 146 5 US-10-970-713-42 Sequence 42, App1
987 30 66.7 147 5 US-10-617-320-4920 Sequence 4920, Ap
988 30 66.7 148 4 US-10-437-963-181563 Sequence 181563, A
989 30 66.7 149 6 US-11-021-949-18 Sequence 18, App1
990 30 66.7 150 4 US-10-424-599-235174 Sequence 235174, A
991 30 66.7 153 3 US-09-882-227-130 Sequence 130, App
992 30 66.7 161 4 US-10-425-115-244432 Sequence 244432, A
993 30 66.7 164 4 US-10-425-115-243045 Sequence 243045, A
994 30 66.7 179 4 US-10-425-115-255139 Sequence 255139, A
995 30 66.7 187 4 US-10-767-701-56832 Sequence 56832, A
996 30 66.7 199 4 US-10-425-115-304228 Sequence 304228, A
997 30 66.7 202 4 US-10-425-115-213021 Sequence 213021, A
998 30 66.7 209 4 US-10-282-122A-47249 Sequence 47249, A
999 30 66.7 210 4 US-10-425-115-304224 Sequence 304224, A
1000 30 66.7 214 4 US-10-259-165-28 Sequence 28, App1
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## ALIGNMENTS

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RESULT 1
US-10-800-023-27
; Sequence 27, Application US/10800023
; Publication No. US20040258688A1
; GENERAL INFORMATION:
; APPLICANT: Steinman, Ralph
; APPLICANT: Nussenzweig, Michel
; APPLICANT: Hawiger, Daniel
; APPLICANT: Bonifaz, Laura
; TITLE OF INVENTION: Enhanced Antigen Delivery and Modulation
; TITLE OF INVENTION: of the Immune Response Therefrom
; FILE REFERENCE: 600-1-081CONCIP1
; CURRENT FILING DATE: 2004-03-14
; PRIOR FILING DATE: 2004-03-14
; PRIOR APPLICATION NUMBER: 09/925,264
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 09/586,704
; PRIOR FILING DATE: 2000-06-05
; PRIOR APPLICATION NUMBER: PCT/US96/01383
; PRIOR FILING DATE: 1996-01-31
; PRIOR APPLICATION NUMBER: 06/381,528
; PRIOR FILING DATE: 1995-01-31
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus E6 protein
US-10-800-023-27

Query Match          100.0%; Score 45; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFKDLFVV 9
Db 47 FAFKDLFVV 55

RESULT 2
US-11-021-949-28
; Sequence 28, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
```

```
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 28
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-28
```

```
Query Match          100.0%; Score 45; DB 6; Length 158;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFKDLFVV 9
Db 47 FAFKDLFVV 55
```

```
RESULT 3
US-10-472-724-6
; Sequence 6, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Cid-Atregui, Angel
; APPLICANT: Zur Hausen, Harald
; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 6
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-6

Query Match          100.0%; Score 45; DB 4; Length 172;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFKDLFVV 9
Db 53 FAFKDLFVV 61

RESULT 4
US-10-000-903-21
; Sequence 21, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisee, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Chistaine
; APPLICANT: Lombardo-Bencheikh, Angela
```

;; TITLE OF INVENTION: Vaccine  
;; FILE REFERENCE: B45107  
;; CURRENT APPLICATION NUMBER: US/10/000,903  
;; CURRENT FILING DATE: 2001-10-01  
;; PRIOR APPLICATION NUMBER: PCT/EP98/05285  
;; PRIOR FILING DATE: 1998-08-17  
;; PRIOR APPLICATION NUMBER: GB 9717953.5  
;; PRIOR FILING DATE: 1997-08-22  
;; NUMBER OF SEQ ID NOS: 23  
;; SOFTWARE: FastSeq for Windows Version 3.0  
;; SEQ ID NO 21  
;; LENGTH: 278  
;; TYPE: PRT  
;; ORGANISM: Homo sapien  
US-10-000-903-21

Query Match 100.0%; Score 45; DB 4; Length 278;  
Best Local Similarity 100.0%; Pred. No. 2.1;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFKDLFVV 9  
|||  
Db 158 FAFKDLFVV 166

RESULT 5  
US-10-899-771-21

;; Sequence 21, Application US/10899771  
;; Publication No. US20050031638A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Dalemans, Wilfried L.J.  
;; APPLICANT: Gerard, Catherine Marie Ghislaine  
;; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins  
;; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide  
;; FILE REFERENCE: B45124  
;; CURRENT APPLICATION NUMBER: US/10/899,771  
;; CURRENT FILING DATE: 2004-07-27  
;; PRIOR APPLICATION NUMBER: US/09/581,976  
;; PRIOR FILING DATE: 2000-06-20  
;; PRIOR APPLICATION NUMBER: PCT/EP98/08563  
;; PRIOR FILING DATE: 1998-12-18  
;; PRIOR APPLICATION NUMBER: GB 9727262.9  
;; PRIOR FILING DATE: 1997-12-24  
;; NUMBER OF SEQ ID NOS: 28  
;; SOFTWARE: FastSeq for Windows Version 3.0  
;; SEQ ID NO 21  
;; LENGTH: 278  
;; TYPE: PRT  
;; ORGANISM: Artificial Sequence  
;; FEATURE:  
;; OTHER INFORMATION: Chimaeric protein (protein D from Haemophilus  
;; OTHER INFORMATION: influenzae B and B6 from Human papilloma virus type  
;; OTHER INFORMATION: 18)  
US-10-899-771-21

Query Match 100.0%; Score 45; DB 5; Length 278;  
Best Local Similarity 100.0%; Pred. No. 2.1;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFKDLFVV 9  
|||  
Db 158 FAFKDLFVV 166

RESULT 6  
US-10-000-903-23

;; Sequence 23, Application US/10000903  
;; Publication No. US20020182221A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Bruck, Claudine  
;; APPLICANT: Cabezon Silva, Teresa  
;; APPLICANT: Delisse, Anne-Marie Eva Bernande  
;; APPLICANT: Gerard, Catherine Marie Ghislaine

;; APPLICANT: Lombardo-Bencheikh, Angela  
;; TITLE OF INVENTION: Vaccine  
;; FILE REFERENCE: B45107  
;; CURRENT APPLICATION NUMBER: US/10/000,903  
;; CURRENT FILING DATE: 2001-10-01  
;; PRIOR APPLICATION NUMBER: PCT/EP98/05285  
;; PRIOR FILING DATE: 1998-08-17  
;; PRIOR APPLICATION NUMBER: GB 9717953.5  
;; PRIOR FILING DATE: 1997-08-22  
;; NUMBER OF SEQ ID NOS: 23  
;; SOFTWARE: FastSeq for Windows Version 3.0  
;; SEQ ID NO 23  
;; LENGTH: 383  
;; TYPE: PRT  
;; ORGANISM: Homo sapien  
US-10-000-903-23

Query Match 100.0%; Score 45; DB 4; Length 383;  
Best Local Similarity 100.0%; Pred. No. 2.9;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFKDLFVV 9  
|||  
Db 158 FAFKDLFVV 166

RESULT 7  
US-10-899-771-23

;; Sequence 23, Application US/10899771  
;; Publication No. US20050031638A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Dalemans, Wilfried L.J.  
;; APPLICANT: Gerard, Catherine Marie Ghislaine  
;; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins  
;; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide  
;; FILE REFERENCE: B45124  
;; CURRENT APPLICATION NUMBER: US/10/899,771  
;; CURRENT FILING DATE: 2004-07-27  
;; PRIOR APPLICATION NUMBER: US/09/581,976  
;; PRIOR FILING DATE: 2000-06-20  
;; PRIOR APPLICATION NUMBER: PCT/EP98/08563  
;; PRIOR FILING DATE: 1998-12-18  
;; PRIOR APPLICATION NUMBER: GB 9727262.9  
;; PRIOR FILING DATE: 1997-12-24  
;; NUMBER OF SEQ ID NOS: 28  
;; SOFTWARE: FastSeq for Windows Version 3.0  
;; SEQ ID NO 23  
;; LENGTH: 383  
;; TYPE: PRT  
;; ORGANISM: Artificial Sequence  
;; FEATURE:  
;; OTHER INFORMATION: Chimaeric protein (protein D from Haemophilus  
;; OTHER INFORMATION: influenzae B and B67 fusion from Human papilloma  
;; OTHER INFORMATION: virus type 18)  
US-10-899-771-23

Query Match 100.0%; Score 45; DB 5; Length 383;  
Best Local Similarity 100.0%; Pred. No. 2.9;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFKDLFVV 9  
|||  
Db 158 FAFKDLFVV 166

RESULT 8  
US-11-021-949-361

;; Sequence 361, Application US/11021949  
;; Publication No. US20050142541A1  
;; GENERAL INFORMATION:  
;; APPLICANT: LU, PETER  
;; APPLICANT: GARMAN, JONATHAN DAVID  
;; APPLICANT: BELMARES, MICHAEL P.

```
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 361
LENGTH: 158
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-361
```

```
Query Match      86.7%; Score 39; DB 6; Length 158;
Best Local Similarity 77.8%; Pred. No. 16;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 FAFKDLFV 9
Db      47 FAFSDLFIV 55
```

```
RESULT 9
US-11-021-949-32
Sequence 32, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 32
LENGTH: 160
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-32
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```
Query Match      86.7%; Score 39; DB 6; Length 160;
Best Local Similarity 77.8%; Pred. No. 16;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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```
QY      1 FAFKDLFV 9
Db      47 FAFSDLFIV 55
```

```
RESULT 10
US-10-437-963-122842
Sequence 122842, Application US/10437963
Publication No. US20040123343A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
APPLICANT: Wu, Wei
APPLICANT: Boukharov, Andrey A.
APPLICANT: Barbasuk, Brad
APPLICANT: Li, Ping
```

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TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53221)B
CURRENT APPLICATION NUMBER: US/10/437,963
CURRENT FILING DATE: 2003-05-14
NUMBER OF SEQ ID NOS: 204966
SEQ ID NO 122842
LENGTH: 1097
TYPE: PRT
ORGANISM: Oryza sativa
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT4530_25734C.1.pep
US-10-437-963-122842
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```
Query Match      84.4%; Score 38; DB 4; Length 1097;
Best Local Similarity 87.5%; Pred. No. 1,8e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1 FAFKDLFV 8
Db      755 FAFKDLFV 762
```

```
RESULT 11
US-11-021-949-30
Sequence 30, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 30
LENGTH: 158
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-30
```

```
Query Match      82.2%; Score 37; DB 6; Length 158;
Best Local Similarity 77.8%; Pred. No. 37;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 FAFKDLFV 9
Db      47 FAFSDLYV 55
```

```
RESULT 12
US-11-021-949-29
Sequence 29, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
```



PRIOR FILING DATE: 2003-12-23  
NUMBER OF SEQ ID NOS: 361  
SOFTWARE: FASTSEQ for Windows Version 4.0  
SEQ ID NO 29  
LENGTH: 158  
TYPE: PRT  
ORGANISM: human papilloma virus (HPV)  
US-11-021-949-29

Query Match 80.0%; Score 36; DB 6; Length 158;  
Best Local Similarity 77.8%; Pred. No. 58;  
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLFVV 9  
Db 47 FAFKDLCTIV 55

RESULT 13  
US-10-408-765A-2177  
Sequence 2177, Application US/10408765A  
Publication No. US20040101874A1  
GENERAL INFORMATION:  
APPLICANT: Ghosh, Soumitra S.  
APPLICANT: Fahy, Bojin D.  
APPLICANT: Zhang, Bing  
APPLICANT: Gibson, Bradford W.  
APPLICANT: Taylor, Steven W.  
APPLICANT: Glenn, Gary W.  
APPLICANT: Warnock, Dale E.  
TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION  
FILE REFERENCE: 660088.465  
CURRENT APPLICATION NUMBER: US/10/408,765A  
CURRENT FILING DATE: 2003-04-04  
NUMBER OF SEQ ID NOS: 3077  
SOFTWARE: FASTSEQ for Windows Version 4.0  
SEQ ID NO 2177  
LENGTH: 1191  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-408-765A-2177

Query Match 77.8%; Score 35; DB 4; Length 1191;  
Best Local Similarity 77.8%; Pred. No. 7,2e+02;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 FAFKDLFVV 9  
Db 106 FAFNDLFVV 114

RESULT 14  
US-10-223-074-8  
Sequence 8, Application US/10223074  
Publication No. US20030100094A1  
GENERAL INFORMATION:  
APPLICANT: Helter, Daniel  
APPLICANT: Lunnen, Keith  
APPLICANT: Wilson, Geoffrey  
TITLE OF INVENTION: A Method For Engineering Strand-Specific, Sequence-Specific DNA  
FILE REFERENCE: NEB-178A-PCT  
CURRENT APPLICATION NUMBER: US/10/223,074  
CURRENT FILING DATE: 2002-08-16  
PRIOR APPLICATION NUMBER: US 60/314,386  
PRIOR FILING DATE: 2001-08-23  
NUMBER OF SEQ ID NOS: 82  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 8  
LENGTH: 289  
TYPE: PRT  
ORGANISM: Bacillus lentus

US-10-223-074-8

Query Match 75.6%; Score 34; DB 4; Length 289;  
Best Local Similarity 85.7%; Pred. No. 2,6e+02;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 AFDLFI 8  
Db 119 AFDLFI 125

RESULT 15  
US-09-815-242-5109  
Sequence 5109, Application US/09815242  
Patent No. US20020061569A1  
GENERAL INFORMATION:  
APPLICANT: Haselbeck, Robert  
APPLICANT: Ohlsen, Kari L.  
APPLICANT: Zykind, Judith W.  
APPLICANT: Wall, Daniel  
APPLICANT: Trawick, John D.  
APPLICANT: Carr, Grant J.  
APPLICANT: Yamamoto, Robert T.  
APPLICANT: Xu, H. Howard  
TITLE OF INVENTION: Identification of Essential Genes in  
FILE REFERENCE: ELITRA.011A  
CURRENT APPLICATION NUMBER: US/09/815,242  
CURRENT FILING DATE: 2001-03-21  
PRIOR APPLICATION NUMBER: 60/191,078  
PRIOR FILING DATE: 2000-03-21  
PRIOR APPLICATION NUMBER: 60/206,848  
PRIOR FILING DATE: 2000-05-23  
PRIOR APPLICATION NUMBER: 60/207,727  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: 60/242,578  
PRIOR FILING DATE: 2000-10-23  
PRIOR APPLICATION NUMBER: 60/253,625  
PRIOR FILING DATE: 2000-11-27  
PRIOR APPLICATION NUMBER: 60/257,931  
PRIOR FILING DATE: 2000-12-22  
PRIOR APPLICATION NUMBER: 60/269,308  
PRIOR FILING DATE: 2001-02-16  
NUMBER OF SEQ ID NOS: 14110  
SOFTWARE: FASTSEQ for Windows Version 4.0  
SEQ ID NO 5109  
LENGTH: 353  
TYPE: PRT  
ORGANISM: Pseudomonas aeruginosa  
US-09-815-242-5109

Query Match 75.6%; Score 34; DB 3; Length 353;  
Best Local Similarity 81.8%; Pred. No. 3,2e+02;  
Matches 9; Conservative 0; Mismatches 0; Indels 2; Gaps 1;

QY 1 FAF-KDLFVV 9  
Db 302 FAFKDLFVV 312

RESULT 16  
US-10-282-122A-43553  
Sequence 43553, Application US/10282122A  
Publication No. US20040029129A1  
GENERAL INFORMATION:  
APPLICANT: Wang, Liangu  
APPLICANT: Zamudio, Carlos  
APPLICANT: Malone, Cheryl  
APPLICANT: Haselbeck, Robert  
APPLICANT: Ohlsen, Kari  
APPLICANT: Zykind, Judith  
APPLICANT: Wall, Daniel  
APPLICANT: Trawick, John

```

; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Foreyeth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 43553
; LENGTH: 353
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-10-282-122A-43553

Query Match
Best Local Similarity 75.6%; Score 34; DB 4; Length 353;
Matches 9; Conservative 0; Mismatches 0; Indels 2; Gaps 1;

QY 1 FAF--KDLFVV 9
Db 302 FAFKDLFVV 312

RESULT 17
US-09-862-027-27
; Sequence 27, Application US/09862027
; Patent No. US20020142428A1
; GENERAL INFORMATION:
; APPLICANT: Hodge, Martin R.
; TITLE OF INVENTION: No. US20020142428A1 Kinases and Uses Thereof
; FILE REFERENCE: 35800/234862
; CURRENT APPLICATION NUMBER: US/09/862,027
; CURRENT FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: US 09/345,473
; PRIOR FILING DATE: 1999-06-30
; NUMBER OF SEQ ID NOS: 82
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 669
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; US-09-862-027-27

Query Match
Best Local Similarity 75.6%; Score 34; DB 3; Length 669;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

QY 1 FAFKDLFV 8  
Db 332 FAFKDLFV 339

```

RESULT 18
US-10-989-228-27
; Sequence 27, Application US/10989228
; Publication No. US20050089917A1
; GENERAL INFORMATION:
; APPLICANT: Hodge, Martin R.
; TITLE OF INVENTION: Novel Kinases and Uses Thereof
; FILE REFERENCE: 35800/234862
; CURRENT APPLICATION NUMBER: US/10/989,228
; CURRENT FILING DATE: 2004-11-15
; PRIOR APPLICATION NUMBER: US/09/862,027
; PRIOR FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: US 09/345,473
; PRIOR FILING DATE: 1999-06-30
; NUMBER OF SEQ ID NOS: 82
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 669
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; US-10-989-228-27

Query Match
Best Local Similarity 75.6%; Score 34; DB 5; Length 669;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

QY 1 FAFKDLFV 8  
Db 332 FAFKDLFV 339

```

RESULT 19
US-10-437-963-181984
; Sequence 181984, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovacic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 181984
; LENGTH: 685
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_79213C.1.pep
; US-10-437-963-181984
```

Query Match  
Best Local Similarity 75.6%; Score 34; DB 4; Length 685;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFKDLF 7  
Db 338 FAFKDLF 344

RESULT 20  
US-10-510-812-54  
; Sequence 54, Application US/10510812  
; Publication No. US20050176097A1

```

; GENERAL INFORMATION:
; APPLICANT: Rasmussen, Michael Dolberg
; APPLICANT: Jorgensen, Steen Troels
; APPLICANT: Andersen, Jens Tonne
; APPLICANT: Olsen, Peter Bjørke
; TITLE OF INVENTION: Improved Bacillus host cell
; FILE REFERENCE: 10296.204-US
; CURRENT APPLICATION NUMBER: US/10/510,812
; CURRENT FILING DATE: 2004-10-07
; NUMBER OF SEQ ID NOS: 84
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 54
; LENGTH: 874
; TYPE: PRF
; ORGANISM: Bacillus licheniformis
US-10-510-812-54

Query Match
Best Local Similarity 75.6%; Score 34; DB 5; Length 874;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 AFKDLFV 9
DB 355 AFKDMYV 362

RESULT 21
US-10-437-963-173023
; Sequence 173023, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 173023
; LENGTH: 1133
; TYPE: PRF
; ORGANISM: Oryza sativa
; PEPTIDE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_71101C.1.pap
US-10-437-963-173023

Query Match
Best Local Similarity 75.6%; Score 34; DB 4; Length 1133;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 PAKDLF 7
DB 792 PAKDLF 798

RESULT 22
US-10-712-425-937
; Sequence 937, Application US/10712425
; Publication No. US20040180380A1
; GENERAL INFORMATION:
; APPLICANT: LEE, FRANK D.
; APPLICANT: MENG, XUN
; APPLICANT: LIVINGSTON, DAVID
; TITLE OF INVENTION: PROTEOME EPIPTOPE TAGS AND METHODS OF USE THEREOF IN PROTEIN
; FILE REFERENCE: ENGE-P02-001
; FILE REFERENCE: ENGE-P02-001

; CURRENT APPLICATION NUMBER: US/10/712,425
; CURRENT FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: 60/379,626
; PRIOR FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: 60/393,137
; PRIOR FILING DATE: 2002-07-01
; PRIOR APPLICATION NUMBER: 60/393,197
; PRIOR FILING DATE: 2002-07-01
; PRIOR APPLICATION NUMBER: 60/393,211
; PRIOR FILING DATE: 2002-07-01
; PRIOR APPLICATION NUMBER: 60/393,223
; PRIOR FILING DATE: 2002-07-01
; PRIOR APPLICATION NUMBER: 60/393,233
; PRIOR FILING DATE: 2002-07-01
; PRIOR APPLICATION NUMBER: 60/393,235
; PRIOR FILING DATE: 2002-07-01
; PRIOR APPLICATION NUMBER: 60/393,280
; PRIOR FILING DATE: 2002-07-01
; PRIOR APPLICATION NUMBER: 60/430,948
; PRIOR FILING DATE: 2002-12-04
; PRIOR APPLICATION NUMBER: 60/433,319
; PRIOR FILING DATE: 2002-12-13
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 937
; LENGTH: 8
; TYPE: PRF
; ORGANISM: Human severe acute respiratory syndrome virus
US-10-712-425-937

Query Match
Best Local Similarity 73.3%; Score 33; DB 4; Length 8;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 AFKDLFV 9
DB 1 AFRDVFV 8

RESULT 23
US-10-773-032-937
; Sequence 937, Application US/10773032
; Publication No. US2005006991A1
; GENERAL INFORMATION:
; APPLICANT: LEE, FRANK D.
; APPLICANT: MENG, XUN
; APPLICANT: AFEYAN, NOUBAR B.
; TITLE OF INVENTION: PROTEOME EPIPTOPE TAGS AND METHODS OF USE THEREOF IN PROTEIN
; FILE REFERENCE: ENGE-P03-001
; CURRENT APPLICATION NUMBER: US/10/773,032
; CURRENT FILING DATE: 2004-02-05
; PRIOR APPLICATION NUMBER: 10/712,425
; PRIOR FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: 10/436,549
; PRIOR FILING DATE: 2003-05-12
; PRIOR APPLICATION NUMBER: 60/379,626
; PRIOR FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: 60/393,137
; PRIOR FILING DATE: 2002-07-01
; PRIOR APPLICATION NUMBER: 60/393,197
; PRIOR FILING DATE: 2002-07-01
; PRIOR APPLICATION NUMBER: 60/393,211
; PRIOR FILING DATE: 2002-07-01
; PRIOR APPLICATION NUMBER: 60/393,223
; PRIOR FILING DATE: 2002-07-01
; PRIOR APPLICATION NUMBER: 60/393,233
; PRIOR FILING DATE: 2002-07-01
; PRIOR APPLICATION NUMBER: 60/393,235
; PRIOR FILING DATE: 2002-07-01
; PRIOR APPLICATION NUMBER: 60/393,280
; PRIOR FILING DATE: 2002-12-04
; PRIOR APPLICATION NUMBER: 60/433,319
; PRIOR FILING DATE: 2002-12-13
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 937
; LENGTH: 8
; TYPE: PRF
; ORGANISM: Human severe acute respiratory syndrome virus
US-10-712-425-937
```

Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 1385  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO 937  
LENGTH: 8  
TYPE: PRT  
ORGANISM: Human severe acute respiratory syndrome virus  
US-10-773-032-937

Query Match 73.3%; Score 33; DB 5; Length 8;  
Best Local Similarity 75.0%; Pred. No. 1.7e+06;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 AFKDLFV 9  
Db 1 AFRDLFV 8

RESULT 24

US-09-909-460-103  
Sequence 103, Application US/09909460  
Publication No. US20020182258A1  
GENERAL INFORMATION:  
APPLICANT: Lunsford, Lynn B.  
APPLICANT: Putnam, David  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY OF NUCLEIC  
TITLE OF INVENTION: ACID  
FILE REFERENCE: 08191/014001  
CURRENT APPLICATION NUMBER: US/09/909,460  
CURRENT FILING DATE: 2001-07-18  
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/321,346  
PRIOR FILING DATE: EARLIER FILING DATE: 1999-05-27  
NUMBER OF SEQ ID NOS: 114  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 103  
LENGTH: 9  
TYPE: PRT  
ORGANISM: Human papilloma virus  
US-09-909-460-103

Query Match 73.3%; Score 33; DB 3; Length 9;  
Best Local Similarity 66.7%; Pred. No. 1.7e+06;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 9  
Db 1 FAFRDLFV 9

RESULT 25

US-09-872-836-103  
Sequence 103, Application US/09872836  
Publication No. US20040142475A1  
GENERAL INFORMATION:  
APPLICANT: Barman, Shikha P.  
APPLICANT: McKeever, Una  
APPLICANT: Hedley, Mary Lynne  
TITLE OF INVENTION: DELIVERY SYSTEMS FOR BIOACTIVE AGENTS  
FILE REFERENCE: 08191-018001  
CURRENT APPLICATION NUMBER: US/09/872,836  
CURRENT FILING DATE: 2001-06-01  
PRIOR APPLICATION NUMBER: US 60/208,830  
PRIOR FILING DATE: 2000-06-02  
NUMBER OF SEQ ID NOS: 120  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 103  
LENGTH: 9  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-872-836-103

Query Match 73.3%; Score 33; DB 3; Length 9;

Best Local Similarity 66.7%; Pred. No. 1.7e+06;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 9  
Db 1 FAFRDLFV 9

RESULT 26

US-10-128-711-67  
Sequence 67, Application US/10128711  
Publication No. US2003009634A1  
GENERAL INFORMATION:  
APPLICANT: VITTELO, Maria A.  
CHESTNUT, Robert W.  
SETTE, Alessandro D.  
CELIS, Esteban  
GRAY, Howard  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ELICITING  
CTL IMMUNITY  
NUMBER OF SEQUENCES: 153  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend Kourile and Crew  
STREET: Steuart Street Tower, One Market Plaza  
CITY: San Francisco  
STATE: California  
COUNTRY: US  
ZIP: 94105-1493  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/128,711  
FILING DATE: 22-Apr-2002  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/197,484  
FILING DATE: 16-FEB-1994  
APPLICATION NUMBER: US 07/935,811  
FILING DATE: 26-AUG-1992  
APPLICATION NUMBER: US 07/874,491  
FILING DATE: 27-APR-1992  
APPLICATION NUMBER: US 07/827,682  
FILING DATE: 29-JAN-1992  
APPLICATION NUMBER: US 07/749,568  
FILING DATE: 26-AUG-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: Parmelee, Steven W.  
REGISTRATION NUMBER: 31,990  
REFERENCE/DOCKET NUMBER: 14137-26-4  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 467-9600  
TELEFAX: (206) 623-6793  
INFORMATION FOR SEQ ID NO: 67:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 9 amino acids  
TYPE: amino acid  
STRANDEDNESS: unknown  
TOPOLOGY: unknown  
MOLECULE TYPE: peptide  
SEQUENCE DESCRIPTION: SEQ ID NO: 67:  
US-10-128-711-67

Query Match 73.3%; Score 33; DB 4; Length 9;  
Best Local Similarity 66.7%; Pred. No. 1.7e+06;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 9  
Db 1 FAFRDLFV 9

```
RESULT 27
US-10-133-210-281
; Sequence 281, Application US/10133210
; Publication No. US20030103964A1
; GENERAL INFORMATION:
; APPLICANT: Delisi, Charles
; APPLICANT: Berzofsky, Jay
; APPLICANT: Gulukota, Kamalakara
; APPLICANT: Vaccaro, Dennis
; APPLICANT: Wang, Zhiping
; TITLE OF INVENTION: METHODS FOR DESIGNING MOLECULAR CONJUGATES AND
; FILE REFERENCE: BU-035AX
; CURRENT APPLICATION NUMBER: US/10/133,210
; CURRENT FILING DATE: 2002-04-26
; NUMBER OF SEQ ID NOS: 281
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 281
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-133-210-281

Query Match          73.3%; Score 33; DB 4; Length 9;
Best Local Similarity 66.7%; Pred. No. 1.7e+06;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLFVV 9
DB 1 FAFRDLCTV 9

RESULT 28
US-10-758-970-103
; Sequence 103, Application US/10758970
; Publication No. US20050037086A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Hsu, Yung-Yueh
; APPLICANT: Tyo, Michael
; TITLE OF INVENTION: CONTINUOUS-FLOW METHOD FOR PREPARING MICROPARTICLES
; FILE REFERENCE: 08191-012001
; CURRENT APPLICATION NUMBER: US/10/758,970
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: US/09/715,708A
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: US 60/166,516
; PRIOR FILING DATE: 1999-11-19
; NUMBER OF SEQ ID NOS: 109
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 103
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-758-970-103

Query Match          73.3%; Score 33; DB 5; Length 9;
Best Local Similarity 66.7%; Pred. No. 1.7e+06;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLFVV 9
DB 1 FAFRDLCTV 9

RESULT 29
US-10-751-845-57
; Sequence 57, Application US/10751845
; Publication No. US20050100928A1
```

```
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 57
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-57

Query Match          73.3%; Score 33; DB 5; Length 9;
Best Local Similarity 66.7%; Pred. No. 1.7e+06;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLFVV 9
DB 1 FAFRDLCTV 9

RESULT 30
US-10-476-570-29
; Sequence 29, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from B6 and/or E7
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 29
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 50-64
US-10-476-570-29

Query Match          73.3%; Score 33; DB 4; Length 15;
Best Local Similarity 66.7%; Pred. No. 18;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLFVV 9
DB 3 FAFRDLCTV 11

RESULT 31
US-10-858-384-6
; Sequence 6, Application US/10858384
```

```
Publication No. US20050033025A1
GENERAL INFORMATION:
APPLICANT: CHOPPIN, JEANNINE
APPLICANT: BOURGAULT VILLADA, ISABELLE
APPLICANT: GUILLET, JEAN-GERARD
APPLICANT: CONNAN, FRANCINE
APPLICANT: FERRIES, ESTELLE
TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
FILE REFERENCE: 0508-1037-1
CURRENT APPLICATION NUMBER: US/10/858,384
CURRENT FILING DATE: 2004-06-02
PRIOR APPLICATION NUMBER: FR 9907012
PRIOR FILING DATE: 1999-06-03
NUMBER OF SEQ ID NOS: 24
SOFTWARE: Patent In Ver. 3.2
SEQ ID NO 6
LENGTH: 22
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of the Artificial Sequence: Peptide fragment
US-10-858-384-6

Query Match      73.3%; Score 33; DB 5; Length 22;
Best Local Similarity 66.7%; Pred. No. 27;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      1 FAFKDLFV 9
Db      7 FAFRDLCLIV 15

RESULT 32
US-10-751-845-65
Sequence 65, Application US/10751845
Publication No. US20050100928A1
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
FILE REFERENCE: 08191-013001
CURRENT APPLICATION NUMBER: US/10/751,845
CURRENT FILING DATE: 2004-01-05
PRIOR APPLICATION NUMBER: US/09/664,225
PRIOR FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: US 60/169,846
PRIOR FILING DATE: 1999-12-09
PRIOR APPLICATION NUMBER: US 60/154,665
PRIOR FILING DATE: 1999-09-16
NUMBER OF SEQ ID NOS: 163
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 65
LENGTH: 24
TYPE: PRT
ORGANISM: Human Papilloma Virus
US-10-751-845-65

Query Match      73.3%; Score 33; DB 5; Length 24;
Best Local Similarity 66.7%; Pred. No. 30;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      1 FAFKDLFV 9
Db      9 FAFRDLCLIV 17

RESULT 33
US-10-425-115-302315
Sequence 302315, Application US/10425115

Publication No. US20040214272A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants
FILE REFERENCE: 38-21(5322)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 302315
LENGTH: 62
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_38788C.1.pep
US-10-425-115-302315

Query Match      73.3%; Score 33; DB 4; Length 62;
Best Local Similarity 77.8%; Pred. No. 80;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy      1 FAFKDLFV 9
Db      25 FAFKDLFV 33

RESULT 34
US-10-424-599-275233
Sequence 275233, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 275233
LENGTH: 81
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_90556C.1.pep
US-10-424-599-275233

Query Match      73.3%; Score 33; DB 4; Length 81;
Best Local Similarity 55.6%; Pred. No. 1,1e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy      1 FAFKDLFV 9
Db      9 FAFKDLFV 17

RESULT 35
US-10-751-845-126
Sequence 126, Application US/10751845
Publication No. US20050100928A1
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
FILE REFERENCE: 08191-013001
CURRENT APPLICATION NUMBER: US/10/751,845
CURRENT FILING DATE: 2004-01-05
```

```
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 126
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-126

Query Match          73.3%; Score 33; DB 5; Length 117;
Best Local Similarity 66.7%; Pred. No. 1.6e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 FAFKDLFV 9
        |||:|:|
Db      29 FAFRDLCTV 37

RESULT 36
US-10-425-114-53781
; Sequence 53781, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jindong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 53781
; LENGTH: 129
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-ZMFLB73169C12_FLI.pep
US-10-425-114-53781

Query Match          73.3%; Score 33; DB 4; Length 129;
Best Local Similarity 62.5%; Pred. No. 1.7e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 FAFKDLFV 8
        |||:|:|
Db      25 FVFRDLFI 32

RESULT 37
US-10-425-115-198103
; Sequence 198103, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(5322)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
```

```
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 198103
; LENGTH: 129
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_112249C.1.pep
US-10-425-115-198103

Query Match          73.3%; Score 33; DB 4; Length 129;
Best Local Similarity 62.5%; Pred. No. 1.7e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 FAFKDLFV 8
        |||:|:|
Db      25 FVFRDLFI 32

RESULT 38
US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
; APPLICANT: Schuler, Gerold
; APPLICANT: N.V. Antwerp Innovatiecentrum
; TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with linear
; TITLE OF INVENTION: Polynucleotides by Electroporation
; FILE REFERENCE: 021505wo/JH/ml
; CURRENT APPLICATION NUMBER: US/10/177,390
; CURRENT FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-177-390-6

Query Match          73.3%; Score 33; DB 4; Length 151;
Best Local Similarity 66.7%; Pred. No. 2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 FAFKDLFV 9
        |||:|:|
Db      45 FAFRDLCTV 53

RESULT 39
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLELMO
; APPLICANT: ROLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-20

Query Match          73.3%; Score 33; DB 5; Length 151;
```

Best Local Similarity 66.7%; Pred. No. 2e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 9  
Db 45 FAFRDLCTV 53

RESULT 40  
US-10-484-063-27

; Sequence 27, Application US/10484063  
; Publication No. US20050048467A1  
; GENERAL INFORMATION:  
; APPLICANT: SASTRY, K. JAGANNADHA  
; APPLICANT: TORTOLERO-LUNA, GUILLERMO  
; APPLICANT: POLLEN, MICHELE  
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED  
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN  
; FILE REFERENCE: UTSC:560US  
; CURRENT APPLICATION NUMBER: US/10/484,063  
; CURRENT FILING DATE: 2004-01-16  
; PRIOR APPLICATION NUMBER: PCT/US02/23198  
; PRIOR FILING DATE: 2002-07-19  
; PRIOR APPLICATION NUMBER: 60/306,809  
; PRIOR FILING DATE: 2001-07-20  
; NUMBER OF SEQ ID NOS: 27  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 27  
; LENGTH: 151  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-10-484-063-27

Query Match 73.3%; Score 33; DB 5; Length 151;  
Best Local Similarity 66.7%; Pred. No. 2e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 9  
Db 45 FAFRDLCTV 53

RESULT 41  
US-10-858-384-2

; Sequence 2, Application US/10858384  
; Publication No. US20050033025A1  
; GENERAL INFORMATION:  
; APPLICANT: CHOPPIN, JEANNINE  
; APPLICANT: BOURGAULT VILLADA, ISABELLE  
; APPLICANT: GUILLET, JEAN-GERARD  
; APPLICANT: CONNAN, FRANCES  
; APPLICANT: FERRIES, ESTELLE  
; TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 PROTEIN  
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE  
; FILE REFERENCE: 0508-1037-1  
; CURRENT APPLICATION NUMBER: US/10/858,384  
; CURRENT FILING DATE: 2004-06-02  
; PRIOR APPLICATION NUMBER: FR 9907012  
; PRIOR FILING DATE: 1999-06-03  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: PatentIn Ver. 3.2  
; SEQ ID NO 2  
; LENGTH: 158  
; TYPE: PRT  
; ORGANISM: Human Papillomavirus  
US-10-858-384-2

Query Match 73.3%; Score 33; DB 5; Length 158;  
Best Local Similarity 66.7%; Pred. No. 2.1e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 9

Db 52 FAFRDLCTV 60

RESULT 42  
US-10-367-057-16

; Sequence 16, Application US/10367057  
; Publication No. US20050100554A1  
; GENERAL INFORMATION:  
; APPLICANT: Cuthill, Scott;  
; APPLICANT: Jackson, Amanda;  
; APPLICANT: Lewin, David A.;  
; APPLICANT: Ooi, Chean Eng  
; TITLE OF INVENTION: Complexes and Methods of Using Same  
; FILE REFERENCE: 21402-559  
; CURRENT APPLICATION NUMBER: US/10/367,057  
; CURRENT FILING DATE: 2003-02-14  
; PRIOR APPLICATION NUMBER: 60/256,911  
; PRIOR FILING DATE: 2002-02-14  
; NUMBER OF SEQ ID NOS: 198  
; SOFTWARE: CirusSeqdist version 0.1  
; SEQ ID NO 16  
; LENGTH: 158  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-367-057-16

Query Match 73.3%; Score 33; DB 5; Length 158;  
Best Local Similarity 66.7%; Pred. No. 2.1e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 9  
Db 52 FAFRDLCTV 60

RESULT 43  
US-11-021-949-13

; Sequence 13, Application US/11021949  
; Publication No. US20050142541A1  
; GENERAL INFORMATION:  
; APPLICANT: LU, PETER  
; APPLICANT: GARMAN, JONATHAN DAVID  
; APPLICANT: BELMARES, MICHAEL P.  
; APPLICANT: DIAZ-SAMIENTO, CHAMORRO SOMOZA  
; APPLICANT: SCHWEITZER, JOHANNES  
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV  
; TITLE OF INVENTION: AND METHODS OF THEIR USE  
; FILE REFERENCE: VITA-012  
; CURRENT APPLICATION NUMBER: US/11/021,949  
; CURRENT FILING DATE: 2004-12-23  
; PRIOR APPLICATION NUMBER: 60/532,373  
; PRIOR FILING DATE: 2003-12-23  
; NUMBER OF SEQ ID NOS: 361  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 13  
; LENGTH: 158  
; TYPE: PRT  
; ORGANISM: human papilloma virus (HPV)  
US-11-021-949-13

Query Match 73.3%; Score 33; DB 6; Length 158;  
Best Local Similarity 66.7%; Pred. No. 2.1e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 9  
Db 52 FAFRDLCTV 60

RESULT 44  
US-10-472-724-2  
; Sequence 2, Application US/10472724



```
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Cid-Arregui, Angel
; APPLICANT: Zur Hausen, Harald
; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 171
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-2
```

```
Query Match          73.3%; Score 33; DB 4; Length 171;
Best Local Similarity 66.7%; Pred. No. 2.3e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 FAFKDLFVV 9
    |||:|:|:|
Db 57 FAFRDLCTV 65
```

```
RESULT 45
US-10-751-845-157
; Sequence 157, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chick, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 157
; LENGTH: 236
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-157
```

```
Query Match          73.3%; Score 33; DB 5; Length 236;
Best Local Similarity 66.7%; Pred. No. 3.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 FAFKDLFVV 9
    |||:|:|:|
Db 29 FAFRDLCTV 37
```

```
RESULT 46
US-10-751-845-158
; Sequence 158, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chick, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 158
; LENGTH: 237
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-158
```

```
Query Match          73.3%; Score 33; DB 5; Length 237;
Best Local Similarity 66.7%; Pred. No. 3.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 FAFKDLFVV 9
    |||:|:|:|
Db 30 FAFRDLCTV 38
```

```
RESULT 47
US-11-072-288-1
; Sequence 1, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BALLOU, Jean-Marc
; APPLICANT: BIZOUARNE, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION
; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/11/072,288
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US/09/462,993
; PRIOR FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Derived from
; OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
; OTHER INFORMATION: fused F protein signals, clone E6+TMF.
US-11-072-288-1
```

```
Query Match          73.3%; Score 33; DB 6; Length 243;
Best Local Similarity 66.7%; Pred. No. 3.3e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 FAFKDLFVV 9
    |||:~|:~|
Db 80 FAFRDLCTV 88
```

```
RESULT 48
```

US-10-751-845-160  
; Sequence 160, Application US/10751845  
; Publication No. US20050100928A1  
; GENERAL INFORMATION:  
; APPLICANT: Hedley, Mary Lynne  
; APPLICANT: Urban, Robert G.  
; APPLICANT: Chicz, Roman M.  
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES  
; FILE REFERENCE: 08191-013001  
; CURRENT APPLICATION NUMBER: US/10/751,845  
; CURRENT FILING DATE: 2004-01-05  
; PRIOR APPLICATION NUMBER: US/09/664,225  
; PRIOR FILING DATE: 2000-08-18  
; PRIOR APPLICATION NUMBER: US 60/169,846  
; PRIOR FILING DATE: 1999-12-09  
; PRIOR APPLICATION NUMBER: US 60/154,665  
; PRIOR FILING DATE: 1999-09-16  
; NUMBER OF SEQ ID NOS: 163  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 160  
; LENGTH: 261  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Artificial fusion sequence  
US-10-751-845-160

Query Match 73.3%; Score 33; DB 5; Length 261;  
Best Local Similarity 66.7%; Pred. No. 3.6e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 9  
|||:|:|  
Db 54 FAFRDLCTV 62

RESULT 49  
US-09-367-309A-1  
; Sequence 1, Application US/09367309A  
; Publication No. US20020081329A1  
; GENERAL INFORMATION:  
; APPLICANT: MACFARLAN, RODERICK I.  
; APPLICANT: MALLIAROS, JIM  
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES  
; FILE REFERENCE: 017227/0149  
; CURRENT APPLICATION NUMBER: US/09/367,309A  
; CURRENT FILING DATE: 1999-08-11  
; PRIOR APPLICATION NUMBER: PCT/AU98/00080  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: AU PO 5178  
; PRIOR FILING DATE: 1997-02-19  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 266  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-09-367-309A-1

Query Match 73.3%; Score 33; DB 3; Length 266;  
Best Local Similarity 66.7%; Pred. No. 3.6e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 9  
|||:|:|  
Db 52 FAFRDLCTV 60

RESULT 50  
US-10-000-903-4  
; Sequence 4, Application US/10000903  
; Publication No. US20020182221A1  
; GENERAL INFORMATION:

; APPLICANT: Bruck, Claudine  
; APPLICANT: Cabezon Silva, Tereza  
; APPLICANT: Delisse, Anne-Marie Eva Bernande  
; APPLICANT: Gerard, Catherine Marie Ghislaine  
; APPLICANT: Lombardo-Bencheikh, Angela  
; TITLE OF INVENTION: Vaccine  
; FILE REFERENCE: B45107  
; CURRENT APPLICATION NUMBER: US/10/000,903  
; CURRENT FILING DATE: 2001-10-01  
; PRIOR APPLICATION NUMBER: PCT/EP98/05285  
; PRIOR FILING DATE: 1998-08-17  
; PRIOR APPLICATION NUMBER: GB 9717953.5  
; PRIOR FILING DATE: 1997-08-22  
; NUMBER OF SEQ ID NOS: 23  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 4  
; LENGTH: 273  
; TYPE: PRT  
; ORGANISM: Homo sapien  
US-10-000-903-4

Query Match 73.3%; Score 33; DB 4; Length 273;  
Best Local Similarity 66.7%; Pred. No. 3.7e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 9  
|||:|:|  
Db 158 FAFRDLCTV 166

Search completed: May 5, 2006, 08:50:23  
Job time : 67.3 secs

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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:40:52 ; Search time 8.4 Seconds  
(without alignments)  
49,591 Million cell updates/sec

Title: US-08-170-344-27  
Perfect score: 45  
Sequence: 1 FAFKLFV 9

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database : Published Applications\_AA\_New:\*

1: /SIDSS/ptodata/1/pubppa/US08\_NEW\_PUB.pep1:\*  
2: /SIDSS/ptodata/1/pubppa/US06\_NEW\_PUB.pep:\*  
3: /SIDSS/ptodata/1/pubppa/US07\_NEW\_PUB.pep:\*  
4: /SIDSS/ptodata/1/pubppa/US08\_NEW\_PUB.pep:\*  
5: /SIDSS/ptodata/1/pubppa/PTCT\_NEW\_PUB.pep:\*  
6: /SIDSS/ptodata/1/pubppa/US09\_NEW\_PUB.pep:\*  
7: /SIDSS/ptodata/1/pubppa/US10\_NEW\_PUB.pep1:\*  
8: /SIDSS/ptodata/1/pubppa/US10\_NEW\_PUB.pep1:\*  
9: /SIDSS/ptodata/1/pubppa/US11\_NEW\_PUB.pep1:\*  
10: /SIDSS/ptodata/1/pubppa/US11\_NEW\_PUB.pep1:\*  
11: /SIDSS/ptodata/1/pubppa/US60\_NEW\_PUB.pep1:\*  
12: /SIDSS/ptodata/1/pubppa/US60\_NEW\_PUB.pep1:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	45	100.0	10	9	US-10-530-061-519
2	45	100.0	15	9	US-10-530-061-1660
3	45	100.0	15	9	US-10-530-061-1661
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149	29	64.4	1857	11	US-11-057-058-60	Sequence 60, Ap	222	27	60.0	177	9	US-10-467-657-8576	Sequence 8576, Ap
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154	28	62.2	114	11	US-11-072-512-3819	Sequence 3819, Ap	227	27	60.0	212	11	US-11-196-475-34	Sequence 34, Ap
155	28	62.2	174	11	US-11-188-298-10713	Sequence 10713, A	228	27	60.0	216	11	US-11-072-512-3064	Sequence 3064, Ap
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256	27	60.0	316	11	US-11-228-923-129	Sequence 129, App	329	27	60.0	459	11	US-11-229-371-127	Sequence 177, App
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262	27	60.0	329	11	US-11-229-371-121	Sequence 121, App	335	27	60.0	467	11	US-11-188-298-11280	Sequence 18569, A
263	27	60.0	329	11	US-11-228-923-121	Sequence 121, App	336	27	60.0	467	11	US-11-188-298-18569	Sequence 22338, A
264	27	60.0	329	11	US-11-228-875-121	Sequence 121, App	337	27	60.0	469	11	US-11-188-298-18563	Sequence 18653, A
265	27	60.0	339	11	US-11-188-298-13813	Sequence 13813, A	338	27	60.0	470	11	US-11-188-298-12862	Sequence 28623, A
266	27	60.0	347	11	US-11-087-099-8588	Sequence 8588, Ap	339	27	60.0	473	11	US-11-188-298-1017	Sequence 4017, Ap
267	27	60.0	347	11	US-11-188-298-16721	Sequence 16721, A	340	27	60.0	473	11	US-11-188-298-8607	Sequence 8607, Ap
268	27	60.0	348	11	US-11-188-298-16726	Sequence 20726, A	341	27	60.0	473	11	US-11-188-298-9070	Sequence 9070, Ap
269	27	60.0	349	11	US-11-188-298-16878	Sequence 16878, A	342	27	60.0	473	11	US-11-188-298-10239	Sequence 10239, A
270	27	60.0	359	11	US-11-087-099-8	Sequence 8, Appl1	343	27	60.0	473	11	US-11-188-298-14047	Sequence 14047, A
271	27	60.0	359	11	US-11-087-099-8	Sequence 6, Appl1	344	27	60.0	473	11	US-11-188-298-14047	Sequence 14047, A
272	27	60.0	360	9	US-10-467-657-5376	Sequence 5376, Ap	345	27	60.0	473	11	US-11-188-298-14327	Sequence 14327, A
273	27	60.0	360	11	US-11-087-099-8275	Sequence 8275, Ap	346	27	60.0	473	11	US-11-188-298-15737	Sequence 15737, A
274	27	60.0	369	11	US-11-188-298-714	Sequence 714, App	347	27	60.0	473	11	US-11-188-298-15737	Sequence 17623, A
275	27	60.0	369	11	US-11-188-298-5459	Sequence 5459, Ap	348	27	60.0	473	11	US-11-188-298-15737	Sequence 20126, A
276	27	60.0	369	11	US-11-188-298-10432	Sequence 10432, A	349	27	60.0	473	11	US-11-188-298-20126	Sequence 14130, A
277	27	60.0	369	11	US-11-188-298-16415	Sequence 16415, A	350	27	60.0	474	11	US-11-188-298-14130	Sequence 22186, A
278	27	60.0	369	11	US-11-188-298-16484	Sequence 16484, A	351	27	60.0	474	11	US-11-188-298-12186	Sequence 21797, Ap
279	27	60.0	369	11	US-11-188-298-19492	Sequence 19492, A	352	27	60.0	477	11	US-11-188-298-17747	Sequence 17747, A
280	27	60.0	369	11	US-11-188-298-19804	Sequence 19804, A	353	27	60.0	477	11	US-11-188-298-19230	Sequence 19230, A
281	27	60.0	370	11	US-11-079-463-8492	Sequence 8492, Ap	354	27	60.0	482	11	US-11-188-298-16977	Sequence 16977, A
282	27	60.0	370	11	US-11-188-298-4681	Sequence 4681, Ap	355	27	60.0	492	9	US-10-216-161A-7	Sequence 7, Appl1
283	27	60.0	370	11	US-11-188-298-5711	Sequence 5711, Ap	356	27	60.0	496	11	US-11-096-568A-25215	Sequence 25215, A
284	27	60.0	370	11	US-11-188-298-8995	Sequence 8995, Ap	357	27	60.0	500	11	US-11-225-903-15	Sequence 15, Appl
285	27	60.0	370	11	US-11-188-298-9711	Sequence 9711, Ap	358	27	60.0	503	11	US-11-087-099-11726	Sequence 11726, A
286	27	60.0	370	11	US-11-188-298-11362	Sequence 11362, A	359	27	60.0	512	11	US-11-096-568A-25214	Sequence 25214, A
287	27	60.0	370	11	US-11-188-298-17120	Sequence 20348, A	360	27	60.0	526	11	US-11-096-568A-17639	Sequence 17639, A
288	27	60.0	370	11	US-11-188-298-20348	Sequence 498, App	361	27	60.0	527	11	US-11-188-298-17639	Sequence 25213, A
289	27	60.0	371	11	US-11-188-298-18397	Sequence 18397, A	362	27	60.0	527	11	US-11-096-568A-25213	Sequence 6074, Ap
290	27	60.0	372	11	US-11-188-298-4185	Sequence 4185, Ap	363	27	60.0	545	11	US-11-188-298-6074	Sequence 11921, A
291	27	60.0	372	11	US-11-188-298-5199	Sequence 5199, Ap	364	27	60.0	554	11	US-11-188-298-11921	Sequence 5760, Ap
292	27	60.0	373	11	US-11-188-298-20794	Sequence 20794, A	365	27	60.0	562	11	US-11-079-463-5760	Sequence 8761, Ap
293	27	60.0	375	11	US-11-188-298-358	Sequence 358, App	366	27	60.0	563	11	US-11-188-298-8761	Sequence 15593, A
294	27	60.0	375	11	US-11-188-298-2021	Sequence 2021, Ap	367	27	60.0	577	11	US-11-188-298-15593	Sequence 28, Appl
295	27	60.0	376	11	US-11-188-298-2629	Sequence 2629, Ap	368	27	60.0	581	9	US-10-763-712A-2	Sequence 92, Appl
296	27	60.0	376	11	US-11-188-298-2629	Sequence 2629, Ap	369	27	60.0	626	11	US-11-188-298-22376	Sequence 22376, A
297	27	60.0	378	11	US-11-172-740-1335	Sequence 1335, Ap	370	27	60.0	631	11	US-11-079-463-7768	Sequence 7768, Ap
298	27	60.0	381	8	US-10-511-937-2513	Sequence 2513, Ap	371	27	60.0	654	11	US-11-188-298-19314	Sequence 19314, A
299	27	60.0	381	9	US-10-784-004-391	Sequence 391, App	372	27	60.0	654	11	US-11-188-298-4548	Sequence 5458, Ap
300	27	60.0	384	11	US-11-188-298-8063	Sequence 8063, Ap	373	27	60.0	663	11	US-11-188-298-4548	Sequence 4, Appl1
301	27	60.0	389	11	US-11-188-298-10495	Sequence 10495, A	374	27	60.0	718	11	US-11-111-664-4	Sequence 3, Appl1
302	27	60.0	393	11	US-11-188-298-8828	Sequence 8828, Ap	375	27	60.0	749	11	US-11-111-664-2	Sequence 2, Appl1
303	27	60.0	397	9	US-10-467-657-2684	Sequence 2684, Ap	376	27	60.0	759	11	US-11-188-298-503	Sequence 503, App
304	27	60.0	399	11	US-11-188-298-11064	Sequence 11064, A	377	27	60.0	764	11	US-11-096-568A-33913	Sequence 33913, A
305	27	60.0	403	11	US-11-192-450-4	Sequence 4, Appl1	378	27	60.0	774	11	US-11-096-568A-33912	Sequence 33912, A
306	27	60.0	404	11	US-11-087-227-6	Sequence 6, Appl1	379	27	60.0	787	11	US-10-537-971-2	Sequence 2, Appl1
307	27	60.0	404	11	US-11-192-450-3	Sequence 3, Appl1	380	27	60.0	833	9	US-11-096-568A-33911	Sequence 33911, A
308	27	60.0	408	9	US-10-821-234-1100	Sequence 1100, Appl	381	27	60.0	841	11	US-11-057-058-64	Sequence 64, Appl
309	27	60.0	419	10	US-11-296-809-2	Sequence 2, Appl1	382	27	60.0	902	11	US-10-392-234A-16	Sequence 21803, A
310	27	60.0	424	11	US-11-229-371-98	Sequence 98, Appl	383	27	60.0	1046	9	US-11-188-298-21803	Sequence 439, App
311	27	60.0	424	11	US-11-229-371-110	Sequence 117, App	384	27	60.0	1106	11	US-11-188-298-21803	Sequence 21803, A
312	27	60.0	424	11	US-11-229-371-117	Sequence 119, App	385	27	60.0	1159	11	US-11-194-246-439	Sequence 439, App
313	27	60.0	424	11	US-11-229-371-119	Sequence 119, App	386	27	60.0	1159	11	US-11-194-246-439	Sequence 439, App

387	27	60.0	1496	11	US-11-079-463-8947	Sequence 8947, Ap	460	26	57.8	338	11	US-11-096-568A-31260	Sequence 31260, A
388	27	60.0	4443	11	US-11-129-741-3478	Sequence 3478, Ap	461	26	57.8	341	11	US-11-116-881A-478	Sequence 478, App
389	27	60.0	4473	9	US-10-895-064-460	Sequence 460, App	462	26	57.8	345	11	US-11-096-568A-22393	Sequence 2839, A
390	27	60.0	4473	11	US-11-129-741-460	Sequence 460, App	463	26	57.8	345	11	US-11-079-463-6230	Sequence 6230, Ap
391	26	57.8	23	11	US-11-152-366-235	Sequence 235, App	464	26	57.8	348	11	US-11-087-099-1162	Sequence 1162, Ap
392	26	57.8	23	11	US-11-166-412-87	Sequence 87, App1	465	26	57.8	348	11	US-11-188-298-10154	Sequence 10154, Ap
393	26	57.8	68	9	US-10-467-657-6568	Sequence 6568, Ap	466	26	57.8	348	11	US-11-188-298-17115	Sequence 17115, A
394	26	57.8	97	11	US-11-079-463-9153	Sequence 9153, Ap	467	26	57.8	349	11	US-11-165-024-2	Sequence 2, App1
395	26	57.8	103	9	US-10-467-657-9199	Sequence 9199, Ap	468	26	57.8	349	11	US-11-152-366-40	Sequence 40, App1
396	26	57.8	109	11	US-11-079-463-5400	Sequence 5400, Ap	469	26	57.8	349	11	US-11-096-568A-23392	Sequence 28392, A
397	26	57.8	135	11	US-11-096-568A-5601	Sequence 5601, Ap	470	26	57.8	359	11	US-11-045-004-232	Sequence 232, App
398	26	57.8	136	9	US-10-485-517-261	Sequence 261, App	471	26	57.8	361	11	US-11-166-412-56	Sequence 56, App1
399	26	57.8	154	11	US-11-079-463-8991	Sequence 8991, Ap	472	26	57.8	361	11	US-11-033-030-43	Sequence 43, App1
400	26	57.8	159	11	US-11-087-099-1918	Sequence 1918, Ap	473	26	57.8	362	11	US-11-033-030-42	Sequence 42, App1
401	26	57.8	162	11	US-11-087-099-4132	Sequence 4132, Ap	474	26	57.8	372	9	US-10-517-939-22	Sequence 22, App1
402	26	57.8	169	9	US-10-453-372-838	Sequence 838, App	475	26	57.8	373	11	US-11-087-099-6167	Sequence 6167, Ap
403	26	57.8	175	9	US-10-965-694-23	Sequence 23, App1	476	26	57.8	379	11	US-11-045-004-2049	Sequence 2049, Ap
404	26	57.8	178	9	US-10-453-372-846	Sequence 846, App	477	26	57.8	380	11	US-11-079-463-5928	Sequence 5928, Ap
405	26	57.8	181	11	US-11-096-568A-5600	Sequence 5600, Ap	478	26	57.8	385	11	US-11-096-568A-27889	Sequence 27889, A
406	26	57.8	204	9	US-10-793-626-1544	Sequence 1544, Ap	479	26	57.8	391	11	US-11-079-463-7568	Sequence 7568, Ap
407	26	57.8	204	11	US-11-096-568A-23094	Sequence 23094, A	480	26	57.8	392	9	US-10-194-487-160	Sequence 160, App
408	26	57.8	222	9	US-10-453-372-844	Sequence 844, App	481	26	57.8	392	9	US-10-195-883-160	Sequence 160, App
409	26	57.8	226	11	US-11-188-298-8485	Sequence 8485, Ap	482	26	57.8	392	9	US-10-195-888-160	Sequence 160, App
410	26	57.8	228	11	US-11-188-298-7542	Sequence 7542, Ap	483	26	57.8	392	9	US-10-195-889-160	Sequence 160, App
411	26	57.8	231	11	US-11-079-463-5606	Sequence 5606, Ap	484	26	57.8	392	11	US-11-084-458-2	Sequence 2, App1
412	26	57.8	233	9	US-10-784-004-1226	Sequence 1226, Ap	485	26	57.8	394	9	US-10-506-454-1376	Sequence 1376, Ap
413	26	57.8	236	11	US-11-096-568A-5599	Sequence 5599, Ap	486	26	57.8	394	11	US-11-183-615-17	Sequence 17, App1
414	26	57.8	237	11	US-11-096-568A-23093	Sequence 23093, A	487	26	57.8	402	11	US-11-174-150-47	Sequence 47, App1
415	26	57.8	239	11	US-11-188-298-19097	Sequence 19097, A	488	26	57.8	412	9	US-10-204-639-43	Sequence 43, App1
416	26	57.8	245	9	US-10-115-609-2	Sequence 2, App1	489	26	57.8	413	11	US-11-096-568A-31259	Sequence 31259, A
417	26	57.8	245	11	US-11-264-096-762	Sequence 762, App	490	26	57.8	428	11	US-11-087-099-2438	Sequence 2438, Ap
418	26	57.8	248	11	US-11-096-568A-30637	Sequence 30637, A	491	26	57.8	430	11	US-11-098-688-11151	Sequence 11151, A
419	26	57.8	252	11	US-11-096-568A-30636	Sequence 30636, A	492	26	57.8	430	11	US-11-096-568A-28190	Sequence 28190, A
420	26	57.8	255	9	US-10-793-626-914	Sequence 914, App	493	26	57.8	430	11	US-11-146-428-76	Sequence 76, App1
421	26	57.8	255	9	US-10-793-626-2620	Sequence 2620, App	494	26	57.8	434	9	US-10-667-295-141	Sequence 141, App
422	26	57.8	268	11	US-11-096-568A-10969	Sequence 10969, A	495	26	57.8	435	11	US-11-087-099-3138	Sequence 3138, Ap
423	26	57.8	270	11	US-11-096-568A-10968	Sequence 10968, A	496	26	57.8	438	9	US-10-793-626-508	Sequence 508, App
424	26	57.8	271	11	US-11-058-817A-4	Sequence 4, App1	497	26	57.8	442	11	US-11-096-568A-28189	Sequence 28189, A
425	26	57.8	271	11	US-11-096-568A-1301	Sequence 1301, Ap	498	26	57.8	443	11	US-11-096-568A-18990	Sequence 18990, A
426	26	57.8	272	11	US-11-058-817A-6	Sequence 6, App1	499	26	57.8	443	11	US-11-096-568A-18990	Sequence 995, Ap
427	26	57.8	273	11	US-11-098-686-10970	Sequence 10970, A	500	26	57.8	446	11	US-11-045-004-655	Sequence 655, App
428	26	57.8	274	9	US-10-353-783-51	Sequence 51, App1	501	26	57.8	442	11	US-11-096-568A-28188	Sequence 28188, A
429	26	57.8	279	11	US-11-096-568A-1300	Sequence 1300, Ap	502	26	57.8	454	11	US-11-188-298-19023	Sequence 19023, A
430	26	57.8	282	11	US-11-019-711-80	Sequence 80, App1	503	26	57.8	455	9	US-10-987-856-4	Sequence 4, App1
431	26	57.8	283	9	US-10-453-372-850	Sequence 850, App	504	26	57.8	455	11	US-11-183-615-7	Sequence 7, App1
432	26	57.8	285	11	US-11-096-568A-1299	Sequence 1299, Ap	505	26	57.8	456	9	US-10-987-856-2	Sequence 2, App1
433	26	57.8	285	11	US-11-096-568A-30635	Sequence 30635, A	506	26	57.8	457	11	US-11-087-099-1115	Sequence 1115, Ap
434	26	57.8	290	9	US-10-453-372-836	Sequence 836, App	507	26	57.8	457	11	US-11-188-298-22046	Sequence 22046, A
435	26	57.8	290	9	US-10-453-372-842	Sequence 842, App	508	26	57.8	463	9	US-10-934-944-282	Sequence 282, App
436	26	57.8	290	9	US-10-453-372-848	Sequence 848, App	509	26	57.8	463	11	US-11-116-881A-291	Sequence 291, App
437	26	57.8	290	9	US-10-115-609-4	Sequence 4, App1	510	26	57.8	468	9	US-10-511-989-164	Sequence 164, App
438	26	57.8	290	9	US-10-115-609-23	Sequence 23, App1	511	26	57.8	469	11	US-11-188-298-10859	Sequence 10859, A
439	26	57.8	290	11	US-11-113-424-77	Sequence 77, App1	512	26	57.8	473	11	US-11-188-298-15657	Sequence 15657, A
440	26	57.8	290	11	US-11-113-424-78	Sequence 78, App1	513	26	57.8	480	9	US-10-506-454-1266	Sequence 1266, Ap
441	26	57.8	290	11	US-11-245-713-1	Sequence 1, App1	514	26	57.8	501	9	US-10-630-203-25	Sequence 25, App1
442	26	57.8	290	11	US-11-245-713-3	Sequence 3, App1	515	26	57.8	501	9	US-10-630-203-27	Sequence 27, App1
443	26	57.8	290	11	US-11-264-096-763	Sequence 763, App	516	26	57.8	501	9	US-10-630-203-28	Sequence 28, App1
444	26	57.8	293	11	US-11-045-004-219	Sequence 219, App	517	26	57.8	505	11	US-11-116-881A-237	Sequence 237, App
445	26	57.8	294	11	US-11-096-568A-23092	Sequence 23092, A	518	26	57.8	505	11	US-11-116-881A-257	Sequence 257, App
446	26	57.8	295	9	US-10-453-372-840	Sequence 840, App	519	26	57.8	505	11	US-11-172-740-398	Sequence 398, App
447	26	57.8	298	11	US-11-188-298-9410	Sequence 9410, Ap	520	26	57.8	505	11	US-11-172-740-399	Sequence 399, App
448	26	57.8	301	11	US-11-096-568A-10967	Sequence 10967, A	521	26	57.8	505	11	US-11-172-740-405	Sequence 405, App
449	26	57.8	311	11	US-11-096-568A-31261	Sequence 31261, A	522	26	57.8	505	11	US-11-188-298-4920	Sequence 4920, Ap
450	26	57.8	311	11	US-11-188-298-21872	Sequence 21872, A	523	26	57.8	505	11	US-11-188-298-6515	Sequence 6515, Ap
451	26	57.8	312	11	US-11-058-817A-8	Sequence 8, App1	524	26	57.8	505	11	US-11-188-298-11130	Sequence 11130, A
452	26	57.8	314	11	US-11-096-568A-18991	Sequence 18991, A	525	26	57.8	505	11	US-11-188-298-18300	Sequence 18300, A
453	26	57.8	314	11	US-11-096-568A-18991	Sequence 18991, A	526	26	57.8	506	9	US-10-667-295-140	Sequence 140, App
454	26	57.8	331	9	US-10-793-626-1960	Sequence 28394, A	527	26	57.8				
455	26	57.8	333	9	US-10-793-626-1960	Sequence 1960, Ap	528	26	57.8				
456	26	57.8	333	9	US-10-878-556A-48	Sequence 48, App1	529	26	57.8				
457	26	57.8	333	11	US-11-087-099-7269	Sequence 7269, Ap	530	26	57.8				
458	26	57.8	333	11	US-11-087-099-7274	Sequence 7274, Ap	531	26	57.8				
459	26	57.8	336	9	US-10-453-372-640	Sequence 640, App	532	26	57.8				

533	26	57.8	506	11	US-11-172-740-406	Sequence 406, App	606	25	55.6	24	9	US-10-353-783-74	Sequence 74, Appl
534	26	57.8	506	11	US-11-188-298-7910	Sequence 7910, App	607	25	55.6	34	9	US-10-353-783-79	Sequence 79, Appl
535	26	57.8	506	11	US-11-188-298-17963	Sequence 17963, A	608	25	55.6	37	9	US-10-353-783-80	Sequence 80, Appl
536	26	57.8	506	11	US-11-188-298-22223	Sequence 22223, A	609	25	55.6	60	11	US-11-079-463-7175	Sequence 7175, Ap
537	26	57.8	509	11	US-11-055-309A-12	Sequence 12, Appl	610	25	55.6	62	11	US-11-079-463-7870	Sequence 7870, Ap
538	26	57.8	509	11	US-11-072-175-219	Sequence 219, App	611	25	55.6	60	11	US-11-096-568A-9878	Sequence 9878, Ap
539	26	57.8	510	11	US-11-079-463-6092	Sequence 6092, App	612	25	55.6	84	11	US-11-079-463-6910	Sequence 6910, Ap
540	26	57.8	513	11	US-11-087-099-7631	Sequence 7631, Ap	613	25	55.6	103	11	US-11-096-568A-1184	Sequence 1184, Ap
541	26	57.8	517	9	US-10-934-944-218	Sequence 218, App	614	25	55.6	107	11	US-11-072-512-3667	Sequence 3667, Ap
542	26	57.8	517	9	US-10-934-944-222	Sequence 222, App	615	25	55.6	115	9	US-10-793-626-500	Sequence 600, App
543	26	57.8	517	9	US-10-934-944-246	Sequence 246, App	616	25	55.6	122	9	US-10-793-626-502	Sequence 102, App
544	26	57.8	517	11	US-11-116-881A-227	Sequence 227, App	617	25	55.6	123	9	US-11-072-512-2112	Sequence 2112, Ap
545	26	57.8	517	11	US-11-116-881A-231	Sequence 231, App	618	25	55.6	125	9	US-10-467-657-2826	Sequence 2826, Ap
546	26	57.8	517	11	US-11-116-881A-255	Sequence 255, App	619	25	55.6	129	11	US-11-096-568A-24157	Sequence 24157, A
547	26	57.8	519	11	US-11-033-030-44	Sequence 44, Appl	620	25	55.6	134	11	US-11-096-568A-8851	Sequence 8851, Ap
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549	26	57.8	526	9	US-10-667-295-139	Sequence 139, App	622	25	55.6	149	9	US-10-467-657-3330	Sequence 4330, App
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556	26	57.8	538	11	US-11-188-298-13417	Sequence 13417, A	629	25	55.6	163	11	US-11-096-568A-8850	Sequence 8850, Ap
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563	26	57.8	608	11	US-11-098-686-10813	Sequence 10813, A	636	25	55.6	189	11	US-11-079-463-7848	Sequence 7848, Ap
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571	26	57.8	825	9	US-10-453-372-644	Sequence 644, App	644	25	55.6	223	9	US-11-264-096-1130	Sequence 1130, Ap
572	26	57.8	834	9	US-10-453-372-658	Sequence 658, App	645	25	55.6	223	9	US-10-131-826A-30	Sequence 30, Appl
573	26	57.8	847	9	US-10-453-372-654	Sequence 654, App	646	25	55.6	223	9	US-10-973-115B-10	Sequence 30, Appl
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579	26	57.8	905	9	US-10-453-372-662	Sequence 662, App	652	25	55.6	223	9	US-10-485-517-305	Sequence 305, App
580	26	57.8	905	9	US-10-453-372-664	Sequence 664, App	653	25	55.6	232	9	US-11-052-554A-51	Sequence 51, Appl
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582	26	57.8	963	9	US-10-453-372-660	Sequence 660, App	655	25	55.6	251	11	US-11-045-004-335	Sequence 335, App
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705	25	55.6	350	11	US-11-096-568A-22523	Sequence 22523, A	778	25	55.6	514	9	US-10-840-688-3	Sequence 3, Appli
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707	25	55.6	357	11	US-11-096-568A-7651	Sequence 7651, Ap	780	25	55.6	514	9	US-10-840-688-5	Sequence 5, Appli
708	25	55.6	357	11	US-11-188-298-20167	Sequence 20167, A	781	25	55.6	514	9	US-10-840-688-6	Sequence 6, Appli
709	25	55.6	359	11	US-11-096-568A-6114	Sequence 6114, Ap	782	25	55.6	514	9	US-10-840-688-7	Sequence 7, Appli
710	25	55.6	362	9	US-10-330-773-885	Sequence 885, App	783	25	55.6	514	9	US-10-840-688-8	Sequence 8, Appli
711	25	55.6	367	11	US-11-045-004-1309	Sequence 1309, Ap	784	25	55.6	514	9	US-10-840-688-9	Sequence 9, Appli
712	25	55.6	368	11	US-11-188-298-19658	Sequence 19658, A	785	25	55.6	514	9	US-10-840-688-10	Sequence 10, Appl
713	25	55.6	370	9	US-10-455-772-474	Sequence 474, App	786	25	55.6	514	9	US-10-840-688-11	Sequence 11, Appl
714	25	55.6	370	9	US-10-455-772-476	Sequence 476, App	787	25	55.6	514	9	US-10-840-688-12	Sequence 12, Appl
715	25	55.6	370	9	US-10-455-772-478	Sequence 478, App	788	25	55.6	514	9	US-10-840-688-13	Sequence 13, Appl
716	25	55.6	372	9	US-10-455-772-480	Sequence 480, App	789	25	55.6	514	9	US-10-840-688-13	Sequence 13, Appl
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719	25	55.6	380	9	US-11-188-298-3140	Sequence 3140, Ap	792	25	55.6	517	9	US-10-934-944-182	Sequence 182, App
720	25	55.6	381	11	US-11-098-686-121292	Sequence 121292, A	793	25	55.6	517	9	US-10-934-944-224	Sequence 224, App
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723	25	55.6	400	11	US-11-096-568A-17440	Sequence 17440, A	796	25	55.6	517	11	US-11-116-881A-189	Sequence 189, App
724	25	55.6	402	11	US-11-045-004-986	Sequence 986, App	797	25	55.6	517	11	US-11-116-881A-291	Sequence 291, App
725	25	55.6	402	11	US-11-045-004-1429	Sequence 1429, Ap	798	25	55.6	517	11	US-11-116-881A-233	Sequence 233, App
726	25	55.6	404	11	US-11-096-568A-20606	Sequence 20606, A	799	25	55.6	517	11	US-11-116-881A-368	Sequence 368, App
727	25	55.6	406	11	US-11-096-568A-6113	Sequence 6113, Ap	800	25	55.6	517	11	US-11-116-881A-372	Sequence 372, App
728	25	55.6	416	11	US-11-146-428-114	Sequence 428, App	801	25	55.6	517	11	US-11-116-881A-374	Sequence 374, App
729	25	55.6	420	11	US-11-185-230-5	Sequence 5, Appli	802	25	55.6	517	11	US-11-116-881A-376	Sequence 376, App
730	25	55.6	420	11	US-11-182-384A-5	Sequence 5, Appli	803	25	55.6	517	11	US-11-116-881A-378	Sequence 378, App
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745	25	55.6	453	9	US-10-195-883-64	Sequence 64, Appl	818	25	55.6	554	11	US-11-188-298-523	Sequence 523, App
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750	25	55.6	454	11	US-11-096-568A-3103	Sequence 3103, Ap	823	25	55.6				
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827	25	55.6	601	11	US-11-045-004-900	Sequence 900, App	900	25	55.6	2005	10	US-11-263-326-131	Sequence 131, App
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829	25	55.6	644	9	US-10-763-712A-36	Sequence 36, Appli	902	25	55.6	2005	10	US-11-263-326-133	Sequence 133, App
830	25	55.6	646	11	US-11-087-099-5999	Sequence 5999, Ap	903	25	55.6	2005	10	US-11-263-326-175	Sequence 175, App
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991 24.5 54.4 273 9 US-10-353-783-61 Sequence 61, App
992 24.5 54.4 327 9 US-10-467-9628-107 Sequence 107, App
993 24.5 54.4 321 11 US-11-092-168-4 Sequence 4, Appl
994 24.5 54.4 350 9 US-10-497-767-4 Sequence 658, Appl
995 24.5 54.4 351 8 US-10-505-928-658 Sequence 14, Appl
996 24.5 54.4 351 11 US-11-132-142-14 Sequence 298, App
997 24.5 54.4 360 9 US-10-501-035-288 Sequence 1870, Ap
998 24.5 54.4 475 11 US-11-087-099-1870 Sequence 4146, Ap
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## ALIGNMENTS

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RESULT 1
US-10-530-061-519
; Sequence 519, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 519
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-519

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; Sequence 1660, Application US/10530061
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; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: Patentin version 3.3
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; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1660

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; Publication No. US20060079453A1
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; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
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; ORGANISM: Human papillomavirus
US-10-530-061-1661
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US-10-530-253-15
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; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
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; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M4137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
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US-10-530-253-15
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; Publication No. US20060079453A1
; GENERAL INFORMATION:
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; APPLICANT: SUTNEY, JOHN
; APPLICANT: SUTNEY, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
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; ORGANISM: Human papillomavirus
US-10-530-061-518
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US-10-530-061-809
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; GENERAL INFORMATION:
; APPLICANT: SUTNEY, JOHN
; APPLICANT: SUTNEY, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
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; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
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; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-809
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; GENERAL INFORMATION:
; APPLICANT: SUTNEY, JOHN
; APPLICANT: SUTNEY, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
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; ORGANISM: Human papillomavirus
US-10-530-061-521
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Best Local Similarity 100.0%; Pred. No. 0.071;
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Db 1 AFXKDLFFV 8
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RESULT 8
US-10-530-253-25
; Sequence 25, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M4137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
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; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
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US-10-530-253-25
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Query Match      86.7%; Score 39; DB 9; Length 160;
Best Local Similarity 77.8%; Pred. No. 1.3;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 FAFKDLFV 9
         |||||
Db       47 FAFNDLFI 55
```

```
RESULT 9
US-10-530-061-791
; Sequence 791, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 791
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-791
```

```
Query Match      82.2%; Score 37; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.18;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 FAFKDLF 7
         |||||
Db       4 FAFKDLF 10
```

```
RESULT 10
US-10-530-061-849
; Sequence 849, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
```

```
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 849
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-849
```

```
Query Match      82.2%; Score 37; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.18;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 FAFKDLF 7
         |||||
Db       4 FAFKDLF 10
```

```
RESULT 11
US-10-530-253-19
; Sequence 19, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M17-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 19
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 39
US-10-530-253-19
```

```
Query Match      82.2%; Score 37; DB 9; Length 158;
Best Local Similarity 77.8%; Pred. No. 3.1;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 FAFKDLFV 9
         |||||
Db       47 FAFSDLYV 55
```

```
RESULT 12
US-10-530-061-82
; Sequence 82, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 82
```

LENGTH: 9  
TYPE: PRT  
ORGANISM: Human papillomavirus  
US-10-530-061-82

Query Match 80.0%; Score 36; DB 9; Length 9;  
Best Local Similarity 87.5%; Pred. No. 1.9e+05;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 AFKDLFV 9  
DB 1 AYKDLFV 8

RESULT 13  
US-10-530-061-808  
Sequence 808, Application US/10530061  
Publication No. US20060079453A1  
GENERAL INFORMATION:  
APPLICANT: SUTHER, JOHN  
APPLICANT: SUTHER, JOHN  
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
FILE REFERENCE: 2060.033US02/EXS/M-M  
CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US03/31308  
PRIOR FILING DATE: 2003-10-03  
PRIOR APPLICATION NUMBER: 60/416,207  
PRIOR FILING DATE: 2002-10-03  
PRIOR APPLICATION NUMBER: 60/417,269  
PRIOR FILING DATE: 2002-10-08  
NUMBER OF SEQ ID NOS: 2503  
SOFTWARE: Patent version 3.3  
SEQ ID NO 808  
LENGTH: 9  
TYPE: PRT  
ORGANISM: Human papillomavirus  
US-10-530-061-808

Query Match 80.0%; Score 36; DB 9; Length 9;  
Best Local Similarity 87.5%; Pred. No. 1.9e+05;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 AFKDLFV 9  
DB 1 AYKDLFV 8

RESULT 14  
US-10-530-253-20  
Sequence 20, Application US/10530253  
Publication No. US20060014926A1  
GENERAL INFORMATION:  
APPLICANT: Cassetti, Maria C.  
APPLICANT: Smith, Larry  
APPLICANT: Jeffrey K. Pullen  
APPLICANT: Susan P. McElhinney  
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
FILE REFERENCE: 00630/100M137-US2  
CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US2003/031726  
PRIOR FILING DATE: 2003-10-02  
PRIOR APPLICATION NUMBER: US 60/415,929  
PRIOR FILING DATE: 2002-10-03  
NUMBER OF SEQ ID NOS: 65  
SOFTWARE: Patent version 3.1  
SEQ ID NO 20  
LENGTH: 158  
TYPE: PRT  
ORGANISM: Human papillomavirus type 45  
US-10-530-253-20

Query Match 80.0%; Score 36; DB 9; Length 158;  
Best Local Similarity 77.8%; Pred. No. 4.9; 1; Indels 0; Gaps 0;  
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLFV 9  
DB 47 FAFKDLFV 55

RESULT 15  
US-11-188-298-6659  
Sequence 6659, Application US/11188298  
Publication No. US2006007522A1  
GENERAL INFORMATION:  
APPLICANT: Abad, Mark S. et al.  
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
FILE REFERENCE: 38-21(53452)B  
CURRENT FILING DATE: 2005-07-22  
PRIOR APPLICATION NUMBER: US/11/188,298  
PRIOR FILING DATE: 2004-07-31  
NUMBER OF SEQ ID NOS: 22569  
SEQ ID NO 6659  
LENGTH: 389  
TYPE: PRT  
ORGANISM: Chlamydomonas reinhardtii  
US-11-188-298-6659

Query Match 80.0%; Score 36; DB 11; Length 389;  
Best Local Similarity 87.5%; Pred. No. 12;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 AFKDLFV 9  
DB 131 AFKDLFV 138

RESULT 16  
US-10-510-386-28  
Sequence 28, Application US/10510386  
Publication No. US20050244922A1  
GENERAL INFORMATION:  
APPLICANT: Andersen, Jens Tonne  
APPLICANT: Clausen, Ib Groch  
APPLICANT: Jorgensen, Steen Troels  
APPLICANT: Olsen, Peter Bjarke  
APPLICANT: Rasmussen, Michael Dolberg  
TITLE OF INVENTION: Improved Bacillus Host Cell  
FILE REFERENCE: 10294.204-US  
CURRENT FILING DATE: 2004-10-04  
PRIOR APPLICATION NUMBER: US/10/510,386  
NUMBER OF SEQ ID NOS: 248  
SOFTWARE: Patent version 3.3  
SEQ ID NO 28  
LENGTH: 874  
TYPE: PRT  
ORGANISM: Bacillus licheniformis  
US-10-510-386-28

Query Match 75.6%; Score 34; DB 9; Length 874;  
Best Local Similarity 75.0%; Pred. No. 71;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 AFKDLFV 9  
DB 355 AFKDLFV 362

RESULT 17  
US-10-510-386-200  
Sequence 200, Application US/10510386  
Publication No. US20050244922A1

```
/ GENERAL INFORMATION:
/ APPLICANT: Andersen, Jens Tonne
/ APPLICANT: Clausen, Ib Groch
/ APPLICANT: Jorgensen, Steen Troels
/ APPLICANT: Olsen, Peter Bjarke
/ APPLICANT: Rasmussen, Michael Dolberg
/ TITLE OF INVENTION: Improved Bacillus Host Cell
/ FILE REFERENCE: 10294.204-US
/ CURRENT APPLICATION NUMBER: US/10/510,386
/ CURRENT FILING DATE: 2004-10-04
/ NUMBER OF SEQ ID NOS: 248
/ SOFTWARE: Patentin version 3.3
/ SEQ ID NO 200
/ LENGTH: 1047
/ TYPE: PRT
/ ORGANISM: Bacillus licheniformis
/ US-10-510-386-200

Query Match          75.6%; Score 34; DB 9; Length 1047;
Best Local Similarity 75.0%; Pred. No. 85;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      2 AFKDLFVY 9
Db      355 AFKDMYV 362

RESULT 18
US-10-530-253-13
/ Sequence 13, Application US/10530253
/ Publication No. US20060014926A1
/ GENERAL INFORMATION:
/ APPLICANT: Cassecci, Maria C.
/ APPLICANT: Smith, Larry
/ APPLICANT: Jeffrey K. Pullen
/ APPLICANT: Susan P. McElhinney
/ TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
/ FILE REFERENCE: 00630/100M137-US2
/ CURRENT APPLICATION NUMBER: US/10/530,253
/ CURRENT FILING DATE: 2005-04-04
/ PRIOR APPLICATION NUMBER: PCT/US2003/031726
/ PRIOR FILING DATE: 2003-10-02
/ PRIOR APPLICATION NUMBER: US 60/415,929
/ PRIOR FILING DATE: 2002-10-03
/ NUMBER OF SEQ ID NOS: 65
/ SOFTWARE: Patentin version 3.1
/ SEQ ID NO 13
/ LENGTH: 151
/ TYPE: PRT
/ ORGANISM: Human papillomavirus type 16
/ US-10-530-253-13

Query Match          73.3%; Score 33; DB 9; Length 151;
Best Local Similarity 66.7%; Pred. No. 18;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 FAFKDLFVY 9
Db      45 FAFRDLCTV 53

RESULT 19
US-11-206-138-3
/ Sequence 3, Application US/11206138
/ Publication No. US20060039919A1
/ GENERAL INFORMATION:
/ APPLICANT: HealthBanks Biotech CO. LTD.
/ TITLE OF INVENTION: Fusion protein for inhibiting cervical cancer
/ FILE REFERENCE: P7819/0613
/ CURRENT APPLICATION NUMBER: US/11/206,138
/ CURRENT FILING DATE: 2005-08-18
/ NUMBER OF SEQ ID NOS: 14
/ SOFTWARE: Patentin version 3.3
```

```
/ SEQ ID NO 3
/ LENGTH: 158
/ TYPE: PRT
/ ORGANISM: Human papillomavirus type 16
/ US-11-206-138-3

Query Match          73.3%; Score 33; DB 11; Length 158;
Best Local Similarity 66.7%; Pred. No. 19;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 FAFKDLFVY 9
Db      52 FAFRDLCTV 60

RESULT 20
US-10-530-253-1
/ Sequence 1, Application US/10530253
/ Publication No. US20060014926A1
/ GENERAL INFORMATION:
/ APPLICANT: Cassecci, Maria C.
/ APPLICANT: Smith, Larry
/ APPLICANT: Jeffrey K. Pullen
/ APPLICANT: Susan P. McElhinney
/ TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
/ FILE REFERENCE: 00630/100M137-US2
/ CURRENT APPLICATION NUMBER: US/10/530,253
/ CURRENT FILING DATE: 2005-04-04
/ PRIOR APPLICATION NUMBER: PCT/US2003/031726
/ PRIOR FILING DATE: 2003-10-02
/ PRIOR APPLICATION NUMBER: US 60/415,929
/ PRIOR FILING DATE: 2002-10-03
/ NUMBER OF SEQ ID NOS: 65
/ SOFTWARE: Patentin version 3.1
/ SEQ ID NO 1
/ LENGTH: 248
/ TYPE: PRT
/ ORGANISM: Human papillomavirus type 16
/ US-10-530-253-1

Query Match          73.3%; Score 33; DB 9; Length 248;
Best Local Similarity 66.7%; Pred. No. 30;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 FAFKDLFVY 9
Db      45 FAFRDLCTV 53

RESULT 21
US-10-530-253-3
/ Sequence 3, Application US/10530253
/ Publication No. US20060014926A1
/ GENERAL INFORMATION:
/ APPLICANT: Cassecci, Maria C.
/ APPLICANT: Smith, Larry
/ APPLICANT: Jeffrey K. Pullen
/ APPLICANT: Susan P. McElhinney
/ TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
/ FILE REFERENCE: 00630/100M137-US2
/ CURRENT APPLICATION NUMBER: US/10/530,253
/ CURRENT FILING DATE: 2005-04-04
/ PRIOR APPLICATION NUMBER: PCT/US2003/031726
/ PRIOR FILING DATE: 2003-10-02
/ PRIOR APPLICATION NUMBER: US 60/415,929
/ PRIOR FILING DATE: 2002-10-03
/ NUMBER OF SEQ ID NOS: 65
/ SOFTWARE: Patentin version 3.1
/ SEQ ID NO 3
/ LENGTH: 248
/ TYPE: PRT
/ ORGANISM: Human papillomavirus type 16
/ US-10-530-253-3
```

Query Match 73.3%; Score 33; DB 9; Length 248;  
Best Local Similarity 66.7%; Pred. No. 30;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 PAFKDLFV 9  
|||:|:|  
Db 45 PAFRDLCTV 53

RESULT 22  
US-10-530-253-5  
; Sequence 5, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Cassetti, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; PRIOR FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 5  
; LENGTH: 248  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-10-530-253-5

Query Match 73.3%; Score 33; DB 9; Length 248;  
Best Local Similarity 66.7%; Pred. No. 30;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 PAFKDLFV 9  
|||:|:|  
Db 45 PAFRDLCTV 53

RESULT 23  
US-10-530-253-7  
; Sequence 7, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Cassetti, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; PRIOR FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 7  
; LENGTH: 248  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-10-530-253-7

Query Match 73.3%; Score 33; DB 9; Length 248;  
Best Local Similarity 66.7%; Pred. No. 30;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 PAFKDLFV 9  
|||:|:|  
Db 142 PAFRDLCTV 150

RESULT 24  
US-10-530-253-9  
; Sequence 9, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Cassetti, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; PRIOR FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 9  
; LENGTH: 248  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-10-530-253-9

Query Match 73.3%; Score 33; DB 9; Length 248;  
Best Local Similarity 66.7%; Pred. No. 30;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 PAFKDLFV 9  
|||:|:|  
Db 142 PAFRDLCTV 150

RESULT 25  
US-10-530-253-11  
; Sequence 11, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Cassetti, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; PRIOR FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 11  
; LENGTH: 248  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-10-530-253-11

Query Match 73.3%; Score 33; DB 9; Length 248;  
Best Local Similarity 66.7%; Pred. No. 30;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 PAFKDLFV 9  
|||:|:|  
Db 142 PAFRDLCTV 150

```
RESULT 26
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
; APPLICANT: PANQ, XIAOMU
; TITLE OF INVENTION: VERUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
; FILE REFERENCE: 116620-003
; CURRENT APPLICATION NUMBER: US/11/192,923A
; PRIOR FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: CN 03115272.4
; PRIOR FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: CN 03115273.2
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-11-192-923A-2
```

```
Query Match      73.3%; Score 33; DB 11; Length 256;
Best Local Similarity 66.7%; Pred. No. 11;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      1 FAFKDLFV 9
Db      150 FAFKDLCTV 158
```

```
RESULT 27
US-10-530-061-520
; Sequence 520, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 520
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-520
```

```
Query Match      71.1%; Score 32; DB 9; Length 10;
Best Local Similarity 87.5%; Pred. No. 1.7;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      2 AFDKDLFV 9
Db      1 AVXDLDLFFV 8
```

```
RESULT 28
US-10-530-061-784
; Sequence 784, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
```

```
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 784
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-784
```

```
Query Match      71.1%; Score 32; DB 9; Length 11;
Best Local Similarity 75.0%; Pred. No. 1.9;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      1 FAFKDLFV 8
Db      4 FAFKDLCTI 11
```

```
RESULT 29
US-10-467-657-9012
; Sequence 9012, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASTIGNANI Vega
; APPLICANT: MONACT Elisabetha
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 9012
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-9012
```

```
Query Match      71.1%; Score 32; DB 9; Length 114;
Best Local Similarity 75.0%; Pred. No. 21;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      1 FAFKDLFV 8
Db      20 FAFDVLFFV 27
```

```
RESULT 30
US-10-530-253-26
; Sequence 26, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casaretti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
```



;; CURRENT APPLICATION NUMBER: US/10/530.253  
;; CURRENT FILING DATE: 2005-04-04  
;; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
;; PRIOR FILING DATE: 2003-10-02  
;; PRIOR APPLICATION NUMBER: US 60/415,929  
;; PRIOR FILING DATE: 2002-10-03  
;; NUMBER OF SEQ ID NOS: 65  
;; SOFTWARE: PatentIn version 3.1  
;; SEQ ID NO 26  
;; LENGTH: 158  
;; TYPE: PRT  
;; ORGANISM: Human papillomavirus type 68  
US-10-530-253-26

Query Match 71.1%; Score 32; DB 9; Length 158;  
Best Local Similarity 77.8%; Pred. No. 30;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 FAFKDLFV 9  
|||  
Db 47 FAFSDLCV 55

RESULT 31  
US-11-087-099-1167  
;; Sequence 1167, Application US/11087099  
;; Publication No. US20060041961A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Abad, Mark S. et al.  
;; TITLE OF INVENTION: Genes and Uses for Plant Improvement  
;; FILE REFERENCE: 38-21(53450)B EP  
;; CURRENT APPLICATION NUMBER: US/11/087,099  
;; CURRENT FILING DATE: 2005-03-22  
;; NUMBER OF SEQ ID NOS: 12464  
;; SEQ ID NO 1167  
;; LENGTH: 262  
;; TYPE: PRT  
;; ORGANISM: Picea abies  
US-11-087-099-1167

Query Match 71.1%; Score 32; DB 11; Length 262;  
Best Local Similarity 85.7%; Pred. No. 51;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLF 7  
|||  
Db 44 FAFKDYF 50

RESULT 32  
US-11-188-298-1192  
;; Sequence 1192, Application US/11188298  
;; Publication No. US20060075522A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Abad, Mark S. et al.  
;; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
;; FILE REFERENCE: 38-21(53452)B  
;; CURRENT APPLICATION NUMBER: US/11/188,298  
;; CURRENT FILING DATE: 2005-07-22  
;; PRIOR APPLICATION NUMBER: 60/592,978  
;; PRIOR FILING DATE: 2004-07-31  
;; NUMBER OF SEQ ID NOS: 22569  
;; SEQ ID NO 1192  
;; LENGTH: 262  
;; TYPE: PRT  
;; ORGANISM: Picea abies  
US-11-188-298-1192

Query Match 71.1%; Score 32; DB 11; Length 262;  
Best Local Similarity 85.7%; Pred. No. 51;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 FAFKDLF 7

Db 44 FAFKDYF 50  
|||

RESULT 33  
US-11-096-568A-11908  
;; Sequence 11908, Application US/11096568A  
;; Publication No. US20060048240A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Alexandrov, Nikolai et al.  
;; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
;; FILE REFERENCE: 2750-1592PUS2  
;; CURRENT APPLICATION NUMBER: US/11/096,568A  
;; CURRENT FILING DATE: 2005-04-01  
;; NUMBER OF SEQ ID NOS: 34471  
;; SEQ ID NO 11908  
;; LENGTH: 286  
;; TYPE: PRT  
;; ORGANISM: Triticum aestivum  
;; FEATURE:  
;; NAME/KEY: misc.feature  
;; LOCATION: (1)..(286)  
;; OTHER INFORMATION: Ceres Seq. ID no. 15219940  
US-11-096-568A-11908

Query Match 71.1%; Score 32; DB 11; Length 286;  
Best Local Similarity 71.4%; Pred. No. 55;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFKDLF 7  
|||  
Db 77 FAFKDIY 83

RESULT 34  
US-11-096-568A-11907  
;; Sequence 11907, Application US/11096568A  
;; Publication No. US20060048240A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Alexandrov, Nikolai et al.  
;; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
;; FILE REFERENCE: 2750-1592PUS2  
;; CURRENT APPLICATION NUMBER: US/11/096,568A  
;; CURRENT FILING DATE: 2005-04-01  
;; NUMBER OF SEQ ID NOS: 34471  
;; SEQ ID NO 11907  
;; LENGTH: 299  
;; TYPE: PRT  
;; ORGANISM: Triticum aestivum  
;; FEATURE:  
;; NAME/KEY: misc.feature  
;; LOCATION: (1)..(299)  
;; OTHER INFORMATION: Ceres Seq. ID no. 15219939  
US-11-096-568A-11907

Query Match 71.1%; Score 32; DB 11; Length 299;  
Best Local Similarity 71.4%; Pred. No. 58;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFKDLF 7  
|||  
Db 90 FAFKDIY 96

RESULT 35  
US-11-096-568A-11906  
;; Sequence 11906, Application US/11096568A  
;; Publication No. US20060048240A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Alexandrov, Nikolai et al.  
;; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides

```

; TITLE OF INVENTION: Therby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 11906
; LENGTH: 313
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; NAME/KEY: misc_feature
; FILE REFERENCE: (1)..(313)
; OTHER INFORMATION: Cerees Seq. ID no. 1521938
US-11-096-568A-11906

```

```

Query Match      71.1%; Score 32; DB 11; Length 313;
Best Local Similarity 71.4%; Pred. No. 61;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 FAFKDLF 7
        |||||
Db      104 FAFKDYF 110

```

```

RESULT 36
US-11-188-298-22033
; Sequence 22033, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 22033
; LENGTH: 318
; TYPE: PRT
; ORGANISM: Zea mays
US-11-188-298-22033

```

```

Query Match      71.1%; Score 32; DB 11; Length 318;
Best Local Similarity 85.7%; Pred. No. 62;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      1 FAFKDLF 7
        |||||
Db      100 FAFKDYF 106

```

```

RESULT 37
US-11-087-099-2407
; Sequence 2407, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 2407
; LENGTH: 331
; TYPE: PRT
; ORGANISM: Triticum turgidum
US-11-087-099-2407

```

```

Query Match      71.1%; Score 32; DB 11; Length 331;
Best Local Similarity 85.7%; Pred. No. 64;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      1 FAFKDLF 7
        |||||
Db      113 FAFKDYF 119

```

```

RESULT 38
US-11-188-298-13365
; Sequence 13365, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 13365
; LENGTH: 331
; TYPE: PRT
; ORGANISM: Triticum turgidum
US-11-188-298-13365

```

```

Query Match      71.1%; Score 32; DB 11; Length 331;
Best Local Similarity 85.7%; Pred. No. 64;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      1 FAFKDLF 7
        |||||
Db      113 FAFKDYF 119

```

```

RESULT 39
US-11-188-298-13956
; Sequence 13956, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 13956
; LENGTH: 331
; TYPE: PRT
; ORGANISM: Triticum aestivum
US-11-188-298-13956

```

```

Query Match      71.1%; Score 32; DB 11; Length 331;
Best Local Similarity 85.7%; Pred. No. 64;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      1 FAFKDLF 7
        |||||
Db      113 FAFKDYF 119

```

```

RESULT 40
US-11-188-298-14389
; Sequence 14389, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31

```

NUMBER OF SEQ ID NOS: 22569  
 SEQ ID NO 14389  
 LENGTH: 331  
 TYPE: PRT  
 ORGANISM: Trifolium aestivum  
 US-11-188-298-14389

Query Match 71.1%; Score 32; DB 11; Length 331;  
 Best Local Similarity 85.7%; Pred. No. 64;  
 Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLF 7  
 |||||  
 Db 113 FAFKDYF 119

RESULT 41  
 US-11-096-568A-25998  
 Sequence 25998, Application US/11096568A  
 Publication No. US20060048240A1  
 GENERAL INFORMATION:

APPLICANT: Alexandrov, Nikolai et al.  
 TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
 TITLE OF INVENTION: Theby  
 FILE REFERENCE: 2750-1592PUS2  
 CURRENT APPLICATION NUMBER: US/11/096,568A  
 CURRENT FILING DATE: 2005-04-01  
 NUMBER OF SEQ ID NOS: 34471  
 SEQ ID NO 25998  
 LENGTH: 338  
 TYPE: PRT  
 ORGANISM: Zea mays subsp. mays  
 FEATURE:  
 NAME/KEY: misc feature  
 LOCATION: (1)..(338)  
 OTHER INFORMATION: Ceres Seq. ID no. 13496486  
 US-11-096-568A-25998

Query Match 71.1%; Score 32; DB 11; Length 338;  
 Best Local Similarity 85.7%; Pred. No. 66;  
 Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLF 7  
 |||||  
 Db 120 FAFKDYF 126

RESULT 42  
 US-11-188-298-1366  
 Sequence 1366, Application US/11188298  
 Publication No. US20060075522A1  
 GENERAL INFORMATION:

APPLICANT: Abad, Mark S. et al.  
 TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
 FILE REFERENCE: 38-21(53452)B  
 CURRENT APPLICATION NUMBER: US/11/188,298  
 CURRENT FILING DATE: 2005-07-22  
 PRIOR APPLICATION NUMBER: 60/592,978  
 PRIOR FILING DATE: 2004-07-31  
 NUMBER OF SEQ ID NOS: 22569  
 SEQ ID NO 1366  
 LENGTH: 380  
 TYPE: PRT  
 ORGANISM: Trifolium aestivum  
 US-11-188-298-1366

Query Match 71.1%; Score 32; DB 11; Length 380;  
 Best Local Similarity 85.7%; Pred. No. 74;  
 Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLF 7  
 |||||  
 Db 162 FAFKDYF 168

RESULT 43  
 US-11-188-298-2542  
 Sequence 2542, Application US/11188298  
 Publication No. US20060075522A1  
 GENERAL INFORMATION:  
 APPLICANT: Abad, Mark S. et al.  
 TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
 FILE REFERENCE: 38-21(53452)B  
 CURRENT APPLICATION NUMBER: US/11/188,298  
 CURRENT FILING DATE: 2005-07-22  
 PRIOR APPLICATION NUMBER: 60/592,978  
 PRIOR FILING DATE: 2004-07-31  
 NUMBER OF SEQ ID NOS: 22569  
 SEQ ID NO 2542  
 LENGTH: 380  
 TYPE: PRT  
 ORGANISM: Trifolium aestivum  
 US-11-188-298-2542

Query Match 71.1%; Score 32; DB 11; Length 380;  
 Best Local Similarity 85.7%; Pred. No. 74;  
 Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLF 7  
 |||||  
 Db 162 FAFKDYF 168

RESULT 44  
 US-11-188-298-12411  
 Sequence 12411, Application US/11188298  
 Publication No. US20060075522A1  
 GENERAL INFORMATION:  
 APPLICANT: Abad, Mark S. et al.  
 TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
 FILE REFERENCE: 38-21(53452)B  
 CURRENT APPLICATION NUMBER: US/11/188,298  
 CURRENT FILING DATE: 2005-07-22  
 PRIOR APPLICATION NUMBER: 60/592,978  
 PRIOR FILING DATE: 2004-07-31  
 NUMBER OF SEQ ID NOS: 22569  
 SEQ ID NO 12411  
 LENGTH: 380  
 TYPE: PRT  
 ORGANISM: Trifolium aestivum  
 US-11-188-298-12411

Query Match 71.1%; Score 32; DB 11; Length 380;  
 Best Local Similarity 85.7%; Pred. No. 74;  
 Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLF 7  
 |||||  
 Db 162 FAFKDYF 168

RESULT 45  
 US-11-188-298-15294  
 Sequence 15294, Application US/11188298  
 Publication No. US20060075522A1  
 GENERAL INFORMATION:  
 APPLICANT: Abad, Mark S. et al.  
 TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
 FILE REFERENCE: 38-21(53452)B  
 CURRENT APPLICATION NUMBER: US/11/188,298  
 CURRENT FILING DATE: 2005-07-22  
 PRIOR APPLICATION NUMBER: 60/592,978  
 PRIOR FILING DATE: 2004-07-31  
 NUMBER OF SEQ ID NOS: 22569  
 SEQ ID NO 15294  
 LENGTH: 380

```

; TYPE: PRT
; ORGANISM: Trilicium aestivum
US-11-188-298-15294

Query Match
Best Local Similarity 71.1%; Score 32; DB 11; Length 380;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLF 7
Db 162 FAFKDYF 168

RESULT 46
US-11-188-298-15878
; Sequence 15878, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 15878
; LENGTH: 380
; TYPE: PRT
; ORGANISM: Trilicium aestivum
US-11-188-298-15878

Query Match
Best Local Similarity 71.1%; Score 32; DB 11; Length 380;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLF 7
Db 162 FAFKDYF 168

RESULT 47
US-11-188-298-17186
; Sequence 17186, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 17186
; LENGTH: 380
; TYPE: PRT
; ORGANISM: Trilicium aestivum
US-11-188-298-17186

Query Match
Best Local Similarity 71.1%; Score 32; DB 11; Length 380;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLF 7
Db 162 FAFKDYF 168

RESULT 48
US-11-188-298-18206
; Sequence 18206, Application US/11188298
; Publication No. US20060075522A1

```

```

; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 18206
; LENGTH: 380
; TYPE: PRT
; ORGANISM: Trilicium aestivum
US-11-188-298-18206

Query Match
Best Local Similarity 71.1%; Score 32; DB 11; Length 380;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLF 7
Db 162 FAFKDYF 168

RESULT 49
US-11-188-298-22293
; Sequence 22293, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 22293
; LENGTH: 380
; TYPE: PRT
; ORGANISM: Zea mays
US-11-188-298-22293

Query Match
Best Local Similarity 71.1%; Score 32; DB 11; Length 380;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLF 7
Db 162 FAFKDYF 168

RESULT 50
US-11-188-298-3303
; Sequence 3303, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 3303
; LENGTH: 381
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(381)
; OTHER INFORMATION: unsure at all Xaa locations

```

US-11-188-298-3303

Query Match 71.1%; Score 32; DB 11; Length 381;  
Best Local Similarity 85.7%; Pred No. 74;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLF 7  
|||  
Db 162 FAFKDYF 168

Search completed: May 5, 2006, 08:51:36  
Job time : 9.4 secs

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GenCore version 5.1.7  
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OM protein - protein search, using sw model

Run on: May 5, 2006, 03:13:35 ; Search time 21 Seconds  
(without alignments)  
35.432 Million cell updates/sec

Title: US-08-170-344-28  
Perfect score: 45  
Sequence: 1 DTLEKLTNT 9

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 100 summaries

Database : Issued\_Patents\_AA:\*  
1: /cgn2\_6/prodata/1/1aa/5-COMB.pep:\*  
2: /cgn2\_6/prodata/1/1aa/6-COMB.pep:\*  
3: /cgn2\_6/prodata/1/1aa/H-COMB.pep:\*  
4: /cgn2\_6/prodata/1/1aa/BCITUS-COMB.pep:\*  
5: /cgn2\_6/prodata/1/1aa/RB-COMB.pep:\*  
6: /cgn2\_6/prodata/1/1aa/backfill1.pep:\*  
  
Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	45	100.0	158	1	US-08-247-904B-10
2	45	100.0	158	2	US-08-767-942A-19
3	45	100.0	271	1	US-08-117-083-14
4	45	100.0	278	2	US-09-485-885-21
5	45	100.0	383	2	US-09-485-885-23
6	39	86.7	11	2	US-08-159-339A-1173
7	38	84.4	533	1	US-07-683-957B-3
8	35	77.8	180	2	US-09-107-433-4010
9	35	77.8	249	2	US-08-961-083-6
10	35	77.8	249	2	US-09-536-784-6
11	35	77.8	249	2	US-09-765-271-6
12	35	77.8	249	2	US-09-765-272A-6
13	35	77.8	250	2	US-08-961-083-226
14	35	77.8	250	2	US-09-536-784-226
15	35	77.8	250	2	US-09-765-271-226
16	35	77.8	250	2	US-09-765-272A-226
17	35	77.8	256	2	US-09-583-110-5299
18	35	77.8	256	2	US-09-769-787-165
19	35	77.8	316	2	US-09-543-681A-5023
20	34	75.6	32	2	US-08-466-285-4
21	34	75.6	32	2	US-08-164-768-4
22	34	75.6	160	1	US-07-847-010-23
23	34	75.6	328	2	US-09-270-767-62218
24	33	73.3	167	2	US-09-270-767-36082
25	33	73.3	167	2	US-09-270-767-51289
26	33	73.3	167	2	US-09-107-433-4132
27	33	73.3	454	2	US-09-583-110-3922

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33	68.9	121	2	US-09-248-796A-24131	Sequence 24131, A
34	68.9	200	2	US-09-543-681A-6662	Sequence 6662, Ap
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36	68.9	233	2	US-09-338-972-21	Sequence 31, Appl
37	68.9	236	2	US-09-248-796A-19850	Sequence 19850, A
38	68.9	271	2	US-09-328-352-7066	Sequence 7066, Ap
39	68.9	305	2	US-09-248-796A-18996	Sequence 18996, A
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41	68.9	338	1	US-08-819-359-1	Sequence 1, Appl1
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43	68.9	338	1	US-09-118-959-2	Sequence 2, Appl1
44	68.9	338	2	US-08-984-207-1	Sequence 1, Appl1
45	68.9	338	2	US-09-013-587-1	Sequence 1, Appl1
46	68.9	338	2	US-09-086-118-21	Sequence 21, Appl1
47	68.9	338	2	US-09-431-614-1	Sequence 21, Appl1
48	68.9	338	2	US-09-412-100-21	Sequence 21, Appl1
49	68.9	338	2	PCT-US96-08819-1	Sequence 1, Appl1
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51	68.9	339	2	US-09-134-000C-5355	Sequence 5355, Ap
52	68.9	373	2	US-09-242-435-2	Sequence 2, Appl1
53	68.9	655	2	US-09-248-796A-15211	Sequence 15211, A
54	68.9	656	2	US-09-463-402-2	Sequence 2, Appl1
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56	68.9	1228	2	US-09-117-447-2	Sequence 2, Appl1
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62	66.7	126	6	US-10-195-707B-12	Sequence 12, Appl1
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64	66.7	128	2	US-10-195-707B-27	Sequence 27, Appl1
65	66.7	128	6	US-10-195-707B-25	Sequence 25, Appl1
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102	30	66.7	143	2	US-09-102-150-8	Sequence 8, Appli	175	29	64.4	35	2	US-10-189-977A-20	Sequence 40, Appl
103	30	66.7	143	2	US-09-601-729-2	Sequence 2, Appli	176	29	64.4	41	2	US-10-318-675-49	Sequence 40, Appl
104	30	66.7	143	2	US-10-195-707B-1	Sequence 1, Appli	177	29	64.4	85	2	US-09-583-110-5264	Sequence 5264, Ap
105	30	66.7	143	2	US-10-195-707B-17	Sequence 17, Appli	178	29	64.4	85	2	US-09-107-433-7762	Sequence 2762, Ap
106	30	66.7	144	2	US-09-601-729-7	Sequence 7, Appli	179	29	64.4	89	2	US-09-430-029-4	Sequence 4, Appli
107	30	66.7	146	6	US-08-030-077-1	Sequence 1, Appli	180	29	64.4	109	2	US-09-270-767-73133	Sequence 4133, A
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109	30	66.7	146	6	5278286-3	Patent No. 5278286	182	29	64.4	135	2	US-09-270-767-59172	Sequence 59172, A
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113	30	66.7	166	2	US-08-765-381-14	Sequence 14, Appli	186	29	64.4	176	2	US-09-583-110-4486	Sequence 2763, Ap
114	30	66.7	166	2	US-09-206-935-24	Sequence 24, Appli	187	29	64.4	200	2	US-09-107-433-2763	Sequence 2763, Ap
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122	30	66.7	192	2	US-09-270-767-53554	Sequence 53554, A	195	29	64.4	351	2	US-09-636-728-28	Sequence 7, Appli
123	30	66.7	201	2	US-09-949-016-11315	Sequence 11315, A	196	29	64.4	363	2	US-09-902-540-11858	Sequence 28, Appli
124	30	66.7	215	2	US-09-248-796A-18558	Sequence 18558, A	197	29	64.4	365	2	US-09-362-012A-4	Sequence 11858, A
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126	30	66.7	296	2	US-09-270-767-41805	Sequence 41805, A	199	29	64.4	403	2	US-08-776-246-4	Sequence 43774, A
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128	30	66.7	312	2	US-09-763-086-5	Sequence 5, Appli	201	29	64.4	412	2	US-09-248-796A-26531	Sequence 10, Appli
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131	30	66.7	337	2	US-09-619-353-6	Sequence 6, Appli	204	29	64.4	494	2	US-09-248-796A-15843	Sequence 15843, A
132	30	66.7	337	2	US-09-248-796A-15798	Sequence 15798, A	205	29	64.4	494	2	US-08-484-661A-39	Sequence 39, Appli
133	30	66.7	385	2	US-09-252-991A-27834	Sequence 27834, A	206	29	64.4	494	4	US-08-656-664-139	Sequence 39, Appli
134	30	66.7	420	2	US-09-248-796A-23463	Sequence 23463, A	207	29	64.4	502	2	PCT-US96-09641-39	Sequence 39, Appli
135	30	66.7	546	1	US-08-533-669A-2	Sequence 2, Appli	208	29	64.4	511	2	US-09-540-236-1922	Sequence 1922, Ap
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138	30	66.7	546	2	US-09-551-974A-2	Sequence 2, Appli	211	29	64.4	543	2	US-10-264-303-3	Sequence 4, Appli
139	30	66.7	546	2	US-09-555-501A-2	Sequence 2, Appli	212	29	64.4	555	2	US-09-540-236-2566	Sequence 2566, Ap
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143	30	66.7	589	2	US-10-261-164-2	Sequence 2, Appli	216	29	64.4	578	2	PCT-US96-09641-37	Sequence 37, Appli
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145	30	66.7	808	1	US-10-055-354-38	Sequence 38, Appli	218	29	64.4	578	4	US-08-656-664-11	Sequence 11, Appli
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152	30	66.7	1065	2	US-08-630-172-9	Sequence 9, Appli	225	29	64.4	610	2	US-08-484-661A-23	Sequence 23, Appli
153	30	66.7	1065	2	US-09-375-419-9	Sequence 9, Appli	226	29	64.4	610	2	US-08-484-661A-26	Sequence 26, Appli
154	30	66.7	1163	2	US-09-949-016-11047	Sequence 11047, A	227	29	64.4	610	2	US-08-484-661A-33	Sequence 33, Appli
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156	30	66.7	1170	1	US-08-752-633-2	Sequence 42, Appli	229	29	64.4	610	2	US-08-656-664-8	Sequence 8, Appli
157	30	66.7	1170	1	US-08-476-062A-42	Sequence 42, Appli	230	29	64.4	610	2	US-08-656-664-16	Sequence 16, Appli
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161	30	66.7	1427	2	US-09-551-974A-97	Sequence 97, Appli	234	29	64.4	610	2	US-08-656-664-29	Sequence 29, Appli
162	30	66.7	1427	2	US-09-555-501A-97	Sequence 97, Appli	235	29	64.4	610	2	US-08-656-664-35	Sequence 35, Appli
163	30	66.7	1427	2	US-09-639-206A-97	Sequence 97, Appli	236	29	64.4	610	2	US-08-656-664-35	Sequence 35, Appli
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165	30	66.7	1641	2	US-09-551-974A-96	Sequence 96, Appli	238	29	64.4	610	2	US-09-019-160-10	Sequence 10, Appli
166	30	66.7	1641	2	US-09-555-501A-96	Sequence 96, Appli	239	29	64.4	610	2	US-09-019-160-10	Sequence 10, Appli
167	30	66.7	1641	2	US-09-639-206A-96	Sequence 96, Appli	240	29	64.4	610	4	PCT-US96-09641-15	Sequence 8, Appli
168	30	66.7	1641	2	US-09-874-923-96	Sequence 96, Appli	241	29	64.4	610	4	PCT-US96-09641-15	Sequence 16, Appli
169	30	66.7	2210	2	US-09-309-572-7	Sequence 7, Appli	242	29	64.4	610	4	PCT-US96-09641-19	Sequence 19, Appli
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171	29	64.4	151	2	US-09-605-703B-2030	Sequence 2030, Ap	244	29	64.4	610	4	PCT-US96-09641-26	Sequence 26, Appli
172	29	64.4	9	2	US-08-159-339A-566	Sequence 566, Ap	245	29	64.4	610	4	PCT-US96-09641-29	Sequence 29, Appli
173	29	64.4	36	2	US-09-092-315-20	Sequence 20, Appli	246	29	64.4	610	4	PCT-US96-09641-33	Sequence 33, Appli



247	29	64.4	610	4	PCT-US96-09641-35	Sequence 35, Appl	320	28	62.2	295	2	US-09-252-991A-20572	Sequence 20572, A
248	29	64.4	610	4	PCT-US96-09641-54	Sequence 54, Appl	321	28	62.2	318	1	US-08-695-142B-12	Sequence 12, Appl
249	29	64.4	616	2	US-09-248-796A-17521	Sequence 17521, A	322	28	62.2	318	2	US-09-253-134D-12	Sequence 12, Appl
250	29	64.4	642	2	US-09-423-439-26	Sequence 26, Appl	323	28	62.2	318	2	US-09-489-039A-13767	Sequence 13767, A
251	29	64.4	643	2	US-09-423-439-16	Sequence 16, Appl	324	28	62.2	318	2	US-10-213-452A-12	Sequence 12, Appl
252	29	64.4	647	2	US-09-423-439-60	Sequence 60, Appl	325	28	62.2	329	2	US-09-719-108-6	Sequence 6, Appl
253	29	64.4	649	2	US-09-830-230A-238	Sequence 238, Appl	326	28	62.2	329	2	US-09-540-236-1057	Sequence 3057, Ap
254	29	64.4	666	2	US-09-423-439-51	Sequence 51, Appl	327	28	62.2	330	2	US-09-668-086-12	Sequence 12, Appl
255	29	64.4	668	2	US-09-830-230A-237	Sequence 237, Appl	328	28	62.2	330	2	US-09-668-086-12	Sequence 12, Appl
256	29	64.4	672	2	US-09-423-439-32	Sequence 32, Appl	329	28	62.2	332	2	US-10-155-435-10	Sequence 4, Appl
257	29	64.4	673	2	US-09-019-160-3	Sequence 3, Appl	330	28	62.2	332	2	US-09-371-307-63	Sequence 10, Appl
258	29	64.4	708	2	US-09-019-160-5	Sequence 5, Appl	331	28	62.2	333	2	US-09-719-108-10	Sequence 10, Appl
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260	29	64.4	794	2	US-09-248-796A-20245	Sequence 20245, A	333	28	62.2	340	2	US-09-125-011C-11	Sequence 11, Appl
261	29	64.4	809	2	US-09-252-991A-32742	Sequence 32742, A	334	28	62.2	342	2	US-10-155-435-11	Sequence 5347, Ap
262	29	64.4	819	2	US-09-976-594-369	Sequence 369, App	335	28	62.2	350	2	US-09-543-661A-5347	Sequence 23465, A
263	29	64.4	827	2	US-09-949-016-7807	Sequence 7807, Ap	336	28	62.2	352	2	US-09-248-796A-23465	Sequence 45827, A
264	29	64.4	893	1	US-08-706-702-3	Sequence 3, Appl	337	28	62.2	355	2	US-09-270-767-45827	Sequence 2, Appl
265	29	64.4	893	1	US-08-484-661A-2	Sequence 2, Appl	338	28	62.2	363	2	US-09-428-034-2	Sequence 5579, Ap
266	29	64.4	893	2	US-08-706-706-3	Sequence 3, Appl	339	28	62.2	376	2	US-09-543-681A-5579	Sequence 6740, Ap
267	29	64.4	893	2	US-08-656-664-2	Sequence 2, Appl	340	28	62.2	376	2	US-09-543-681A-5740	Sequence 11, Appl
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269	29	64.4	893	2	US-09-019-160-6	Sequence 6, Appl	342	28	62.2	393	2	US-09-248-796A-16746	Sequence 6751, Ap
270	29	64.4	893	2	US-09-019-160-7	Sequence 7, Appl	343	28	62.2	398	2	US-09-328-352-7199	Sequence 7199, Ap
271	29	64.4	893	2	US-09-019-160-8	Sequence 8, Appl	344	28	62.2	404	2	US-10-017-754-1932	Sequence 1932, Ap
272	29	64.4	893	2	US-09-019-160-9	Sequence 9, Appl	345	28	62.2	407	2	US-09-438-188A-691	Sequence 691, App
273	29	64.4	893	2	US-09-338-471-3	Sequence 3, Appl	346	28	62.2	421	2	US-09-198-452A-193	Sequence 193, App
274	29	64.4	893	4	PCT-US96-09641-2	Sequence 2, Appl	347	28	62.2	421	2	US-09-438-188A-178	Sequence 6642, Ap
275	29	64.4	1001	2	US-09-949-016-9832	Sequence 9832, Ap	348	28	62.2	416	2	US-09-540-236-3347	Sequence 178, App
276	29	64.4	1013	2	US-09-712-363-214	Sequence 214, App	349	28	62.2	416	2	US-09-198-452A-193	Sequence 13, Appl
277	29	64.4	1016	2	US-09-949-016-11304	Sequence 11304, A	350	28	62.2	421	2	US-09-198-452A-193	Sequence 43924, A
278	29	64.4	1186	2	US-09-543-681A-5514	Sequence 5514, Ap	351	28	62.2	423	2	US-08-855-910-13	Sequence 3347, Ap
279	29	64.4	1193	2	US-09-327-725A-4	Sequence 4, Appl	352	28	62.2	427	2	US-09-134-000C-6142	Sequence 6142, Ap
280	29	64.4	1193	2	US-10-071-900-4	Sequence 4, Appl	353	28	62.2	427	2	US-09-270-767-43924	Sequence 2, Appl
281	29	64.4	1209	4	PCT-US95-04589-107	Sequence 107, App	354	28	62.2	431	2	US-08-478-507-2	Sequence 2, Appl
282	29	64.4	1211	2	US-09-167-206-14	Sequence 14, Appl	355	28	62.2	431	2	US-09-128-275A-2	Sequence 2, Appl
283	29	64.4	1233	2	US-09-252-991A-23237	Sequence 23237, A	356	28	62.2	431	2	US-09-553-427-2	Sequence 4917, Ap
284	29	64.4	1258	1	US-08-310-912A-107	Sequence 107, App	357	28	62.2	431	2	US-09-553-427-2	Sequence 126, App
285	29	64.4	1258	2	US-09-301-085-107	Sequence 107, App	358	28	62.2	440	2	US-09-266-965-16	Sequence 1934, Ap
286	29	64.4	1294	2	US-08-930-996A-10	Sequence 10, Appl	359	28	62.2	460	2	US-10-017-754-1934	Sequence 3563, Ap
287	29	64.4	2110	2	US-09-809-665A-16	Sequence 16, Appl	360	28	62.2	464	2	US-10-104-047-3563	Sequence 2, Appl
288	29	64.4	76	2	US-08-936-165A-383	Sequence 383, App	361	28	62.2	467	1	US-08-140-10A-2	Sequence 2311, A
289	28	62.2	76	2	US-09-543-681A-4363	Sequence 4363, Ap	362	28	62.2	470	2	US-09-248-796A-23131	Sequence 17531, A
290	28	62.2	81	2	US-09-770-834-1	Sequence 1, Appl	363	28	62.2	475	2	US-09-248-796A-17531	Sequence 2, Appl
291	28	62.2	98	2	US-09-543-681A-6937	Sequence 6937, Ap	364	28	62.2	489	2	US-09-888-320-2	Sequence 134, App
292	28	62.2	106	2	US-09-543-681A-5874	Sequence 5874, Ap	365	28	62.2	489	2	US-09-302-765-44	Sequence 44, Appl
293	28	62.2	106	2	US-09-134-000C-6577	Sequence 6577, Ap	366	28	62.2	542	2	US-08-962-560C-44	Sequence 5673, Ap
294	28	62.2	106	2	US-09-134-000C-6681	Sequence 6681, Ap	367	28	62.2	542	2	US-09-302-765-44	Sequence 22, Appl
295	28	62.2	113	2	US-09-543-681A-5797	Sequence 5797, Ap	368	28	62.2	567	2	US-09-543-681A-5673	Sequence 5673, Ap
296	28	62.2	113	2	US-09-489-039A-10098	Sequence 10098, A	369	28	62.2	572	2	US-09-662-254B-22	Sequence 22, Appl
297	28	62.2	116	2	US-09-489-039A-9295	Sequence 9295, Ap	370	28	62.2	576	1	US-08-179-738-2	Sequence 2, Appl
298	28	62.2	120	2	US-10-101-664A-781	Sequence 781, App	371	28	62.2	596	1	US-08-628-145-2	Sequence 19, Appl
299	28	62.2	124	2	US-09-134-000C-6663	Sequence 6663, Ap	372	28	62.2	596	1	US-09-886-318A-19	Sequence 20, Appl
300	28	62.2	128	2	US-09-198-452A-235	Sequence 235, App	373	28	62.2	632	2	US-09-605-703B-2098	Sequence 5910, Ap
301	28	62.2	128	2	US-09-438-185A-225	Sequence 225, App	374	28	62.2	632	2	US-09-949-016-9510	Sequence 4308, Ap
302	28	62.2	129	6	5229115-2	Patent No. 5229115	375	28	62.2	646	2	US-09-107-532A-6425	Sequence 4425, Ap
303	28	62.2	132	2	US-09-248-796A-16572	Sequence 16572, A	376	28	62.2	655	2	US-09-540-236-3300	Sequence 14, Appl
304	28	62.2	133	2	US-09-902-540-13845	Sequence 13845, A	377	28	62.2	666	1	US-08-737-716-14	Sequence 19045, A
305	28	62.2	134	1	US-08-446-308-2	Sequence 2, Appl	378	28	62.2	709	2	US-09-248-796A-19045	Sequence 17753, A
306	28	62.2	154	1	US-08-221-205A-2	Sequence 2, Appl	379	28	62.2	756	2	US-08-450-351-2	Sequence 4, Appl
307	28	62.2	154	1	US-08-871-161-2	Sequence 2, Appl	380	28	62.2	759	1	US-08-450-351-2	Sequence 4, Appl
308	28	62.2	169	2	US-09-270-767-32415	Sequence 32415, A	381	28	62.2	777	2	US-09-540-236-3300	Sequence 3300, Ap
309	28	62.2	178	2	US-09-489-039A-13549	Sequence 13549, A	382	28	62.2	873	2	US-09-546-236-2	Sequence 2, Appl
310	28	62.2	197	2	US-09-248-796A-15490	Sequence 15490, A	383	28	62.2	894	2	US-09-588-092-14	Sequence 14, Appl
311	28	62.2	201	2	US-09-248-796A-14864	Sequence 14864, A	384	28	62.2	907	2	US-08-989-299-12	Sequence 12, Appl
312	28	62.2	210	2	US-09-248-796A-19343	Sequence 19343, A	385	28	62.2	907	2	US-09-407-427-12	Sequence 12, Appl
313	28	62.2	220	2	US-09-541-759-4	Sequence 4, Appl	386	28	62.2	907	2	US-09-635-501-12	Sequence 21, Appl
314	28	62.2	220	2	US-09-489-039A-11967	Sequence 11967, A	387	28	62.2	960	2	US-09-694-777A-21	Sequence 9, Appl
315	28	62.2	266	2	US-09-134-000C-5984	Sequence 5984, Ap	388	28	62.2	962	2	US-09-614-480-9	Sequence 20572, A
316	28	62.2	266	2	US-09-134-000C-5445	Sequence 5445, Ap	389	28	62.2				Sequence 12, Appl
317	28	62.2	269	2	US-09-902-540-16177	Sequence 16177, A	390	28	62.2				Sequence 12, Appl
318	28	62.2	281	2	US-09-902-540-16177	Sequence 16177, A	391	28	62.2				Sequence 21, Appl
319	28	62.2	289	2	US-09-198-452A-728	Sequence 728, App	392	28	62.2				Sequence 9, Appl

393	28	62.2	962	2	US-09-694-777A-3	Sequence 3, Appl1	466	27	60.0	114	2	US-09-450-520A-10	Sequence 10, Appl1
394	28	62.2	962	2	US-10-422-075-9	Sequence 9, Appl1	467	27	60.0	114	2	US-09-450-520A-11	Sequence 11, Appl1
395	28	62.2	987	2	US-09-694-777A-22	Sequence 22, Appl1	468	27	60.0	122	2	US-09-902-500A-11861	Sequence 11861, A
396	28	62.2	989	2	US-09-694-777A-4	Sequence 4, Appl1	469	27	60.0	122	2	US-09-621-976-4106	Sequence 4106, Ap
397	28	62.2	1006	2	US-09-949-016-8421	Sequence 8421, Ap	470	27	60.0	136	2	US-09-830-220A-676	Sequence 676, App
398	28	62.2	1006	2	US-09-949-016-8530	Sequence 8530, Ap	471	27	60.0	136	2	US-09-450-520A-8	Sequence 8, Appl1
399	28	62.2	1098	2	US-09-248-796A-20284	Sequence 20284, A	472	27	60.0	136	2	US-09-248-796A-27553	Sequence 27553, A
400	28	62.2	1098	2	US-09-252-991A-28476	Sequence 28476, A	473	27	60.0	140	2	US-09-248-796A-23981	Sequence 23981, A
401	28	62.2	1159	2	US-09-328-352-7624	Sequence 7624, Ap	474	27	60.0	143	2	US-09-601-729-4	Sequence 4, Appl1
402	28	62.2	1169	2	US-09-583-110-4409	Sequence 4409, Ap	475	27	60.0	143	2	US-09-513-999C-5233	Sequence 5233, Ap
403	28	62.2	1169	2	US-09-107-433-4847	Sequence 4847, Ap	476	27	60.0	143	2	US-09-513-999C-5234	Sequence 5234, Ap
404	28	62.2	1302	2	US-09-902-540-14853	Sequence 14853, A	477	27	60.0	148	1	US-08-233-788A-43	Sequence 43, Appl1
405	28	62.2	1359	2	US-09-134-000C-6374	Sequence 6374, Ap	478	27	60.0	151	2	US-09-270-767-60577	Sequence 60577, A
406	28	62.2	1571	2	US-08-956-991-11	Sequence 11, Appl1	479	27	60.0	158	2	US-09-134-000C-3763	Sequence 3763, Ap
407	28	62.2	1693	2	US-08-840-316-1	Sequence 1, Appl1	480	27	60.0	161	2	US-09-134-000C-6162	Sequence 6162, Ap
408	28	62.2	1693	2	US-08-478-507-7	Sequence 7, Appl1	481	27	60.0	166	2	US-08-765-381-5	Sequence 5, Appl1
409	28	62.2	1693	2	US-08-809-523-1	Sequence 1, Appl1	482	27	60.0	172	2	US-09-830-220A-675	Sequence 675, App
410	28	62.2	1693	2	US-09-128-275A-7	Sequence 1, Appl1	483	27	60.0	182	2	US-09-248-796A-18016	Sequence 18016, A
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412	28	62.2	1693	2	US-09-553-427-7	Sequence 7, Appl1	485	27	60.0	186	2	US-09-248-796A-14935	Sequence 14935, A
413	28	62.2	1693	2	US-09-402-776-1	Sequence 1, Appl1	486	27	60.0	187	2	US-09-830-220A-640	Sequence 640, App
414	28	62.2	1693	2	US-08-470-246-1	Sequence 1, Appl1	487	27	60.0	189	1	US-08-464-517-21	Sequence 21, Appl1
415	28	62.2	1693	2	US-08-316-765-1	Sequence 1, Appl1	488	27	60.0	189	1	US-08-246-361A-21	Sequence 21, Appl1
416	28	62.2	1693	2	US-09-724-475-1	Sequence 1, Appl1	489	27	60.0	189	2	US-08-463-772-21	Sequence 21, Appl1
417	28	62.2	1693	4	PCT-US93-08849A-1	Sequence 1, Appl1	490	27	60.0	189	4	PCT-US93-05000-21	Sequence 21, Appl1
418	28	62.2	1693	4	PCT-US93-08849-1	Sequence 1, Appl1	491	27	60.0	190	2	US-09-075-454-5	Sequence 5, Appl1
419	28	62.2	1693	2	US-09-866-108A-15753	Sequence 15753, A	492	27	60.0	190	2	US-09-328-352-4549	Sequence 4549, Ap
420	28	62.2	1780	2	US-09-949-016-6899	Sequence 6899, Ap	493	27	60.0	191	2	US-09-765-288A-24	Sequence 24, Appl1
421	28	62.2	1786	2	US-09-949-016-7880	Sequence 7880, Ap	494	27	60.0	192	2	US-09-370-950C-5	Sequence 5, Appl1
422	28	62.2	1835	2	US-08-836-325-15	Sequence 15, Appl1	495	27	60.0	192	2	US-09-709-103-52	Sequence 52, Appl1
423	28	62.2	1835	2	US-09-457-571-15	Sequence 15, Appl1	496	27	60.0	192	2	US-09-439-410A-52	Sequence 52, Appl1
424	28	62.2	1874	2	US-09-602-787A-46	Sequence 46, Appl1	497	27	60.0	192	2	US-10-418-036-25	Sequence 25, Appl1
425	28	62.2	1910	2	US-08-956-991-2	Sequence 2, Appl1	498	27	60.0	202	2	US-10-418-036-27	Sequence 27, Appl1
426	28	62.2	1969	2	US-08-836-325-16	Sequence 16, Appl1	499	27	60.0	204	2	US-09-949-016-6906	Sequence 806, Ap
427	28	62.2	1969	2	US-09-457-571-16	Sequence 16, Appl1	500	27	60.0	206	1	US-08-155-171B-6	Sequence 6, Appl1
428	28	62.2	1977	2	US-09-976-594-757	Sequence 757, App	501	27	60.0	206	1	US-08-435-998-6	Sequence 6, Appl1
429	28	62.2	1977	2	US-09-919-039-367	Sequence 367, App	502	27	60.0	206	2	US-09-902-540-10464	Sequence 10464, A
430	28	62.2	1984	2	US-08-836-325-10	Sequence 10, Appl1	503	27	60.0	208	2	US-09-830-230A-639	Sequence 639, App
431	28	62.2	1984	2	US-09-457-571-10	Sequence 10, Appl1	504	27	60.0	211	2	US-10-418-036-24	Sequence 24, Appl1
432	28	62.2	1989	2	US-08-836-325-11	Sequence 11, Appl1	505	27	60.0	215	2	US-09-248-796A-25276	Sequence 25276, A
433	28	62.2	1989	2	US-08-836-325-12	Sequence 12, Appl1	506	27	60.0	222	2	US-09-902-540-11682	Sequence 11682, A
434	28	62.2	1989	2	US-09-457-571-11	Sequence 11, Appl1	507	27	60.0	233	2	US-09-328-352-6059	Sequence 6059, Ap
435	28	62.2	1989	2	US-09-457-571-12	Sequence 12, Appl1	508	27	60.0	254	2	US-09-543-681A-4919	Sequence 4919, Ap
436	28	62.2	2468	2	US-09-976-594-726	Sequence 726, App	509	27	60.0	257	2	US-09-248-796A-20922	Sequence 20922, A
437	28	62.2	2468	2	US-09-538-093-1135	Sequence 1135, Ap	510	27	60.0	263	2	US-09-543-681A-5138	Sequence 5138, Ap
438	28	62.2	2522	2	US-09-949-016-10237	Sequence 10237, A	511	27	60.0	264	2	US-09-198-452A-1122	Sequence 1122, Ap
439	28	62.2	26	2	US-09-270-767-56967	Sequence 56967, A	512	27	60.0	265	2	US-09-252-991A-20892	Sequence 20892, A
440	27	60.0	26	4	PCT-US91-02942-96	Sequence 96, Appl1	513	27	60.0	266	2	US-09-651-656-5	Sequence 5, Appl1
441	27	60.0	43	2	US-10-318-675-43	Sequence 43, Appl1	514	27	60.0	266	2	US-09-650-855-5	Sequence 5, Appl1
442	27	60.0	47	2	US-09-674-973A-144	Sequence 144, App	515	27	60.0	267	2	US-09-949-016-11163	Sequence 11163, A
443	27	60.0	50	4	PCT-US91-02942-55	Sequence 55, Appl1	516	27	60.0	267	2	US-09-949-016-11164	Sequence 11164, A
444	27	60.0	51	2	US-09-439-410A-97	Sequence 97, Appl1	517	27	60.0	269	2	US-09-438-185A-1048	Sequence 1048, Ap
445	27	60.0	60	2	US-09-270-767-32933	Sequence 32933, A	518	27	60.0	269	2	PCT-US93-05000-31	Sequence 31, Appl1
446	27	60.0	60	2	US-09-270-767-48150	Sequence 48150, A	519	27	60.0	271	2	US-09-543-681A-4336	Sequence 4336, Ap
447	27	60.0	73	2	US-10-125-258-115	Sequence 115, App	520	27	60.0	276	2	US-09-540-236-2364	Sequence 2364, Ap
448	27	60.0	75	2	US-09-125-258-115	Sequence 115, App	521	27	60.0	288	2	US-09-107-433-4860	Sequence 4860, Ap
449	27	60.0	89	1	US-08-216-276A-27	Sequence 17080, A	522	27	60.0	289	1	US-08-246-361A-4	Sequence 4, Appl1
450	27	60.0	89	2	US-09-453-956-4	Sequence 27, Appl1	523	27	60.0	289	2	US-09-919-497-54	Sequence 54, Appl1
451	27	60.0	89	2	US-10-223-371B-4	Sequence 4, Appl1	524	27	60.0	289	2	US-09-949-016-6127	Sequence 6127, Ap
452	27	60.0	92	2	US-09-543-681A-7704	Sequence 7704, Ap	525	27	60.0	289	4	PCT-US93-05000-4	Sequence 4, Appl1
453	27	60.0	92	2	US-09-270-767-41722	Sequence 41722, A	526	27	60.0	294	2	US-09-543-681A-4622	Sequence 4622, Ap
454	27	60.0	96	2	US-10-125-258-113	Sequence 113, App	527	27	60.0	309	1	US-08-464-517-4	Sequence 4, Appl1
455	27	60.0	99	2	US-09-543-681A-5318	Sequence 5318, Ap	528	27	60.0	309	2	US-08-463-772-4	Sequence 4, Appl1
456	27	60.0	104	1	US-08-464-517-48	Sequence 48, Appl1	529	27	60.0	309	2	US-09-902-540-15963	Sequence 15963, A
457	27	60.0	104	1	US-08-246-361A-48	Sequence 48, Appl1	530	27	60.0	312	2	US-09-540-236-1963	Sequence 1963, Ap
458	27	60.0	104	2	US-08-463-772-48	Sequence 48, Appl1	531	27	60.0	316	2	US-09-248-796A-18556	Sequence 18556, A
459	27	60.0	107	2	US-09-513-999C-5713	Sequence 5713, Ap	532	27	60.0	317	2	US-09-248-796A-20568	Sequence 20568, A
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462	27	60.0	113	1	US-08-248-839C-4	Sequence 4, Appl1	535	27	60.0	327	2	US-09-170-996D-8	Sequence 8, Appl1
463	27	60.0	113	1	US-08-248-839C-6	Sequence 6, Appl1	536	27	60.0	333	2	US-09-170-996D-168	Sequence 168, App
464	27	60.0	113	1	US-08-248-839C-8	Sequence 8, Appl1	537	27	60.0	333	2	US-09-826-509-509	Sequence 509, App
465	27	60.0	114	2	US-09-450-520A-9	Sequence 9, Appl1	538	27	60.0	333	2		

539	27	60.0	343	2	US-09-605-703B-2238	Sequence 2238, Ap	612	27	60.0	627	2	US-10-041-007-26	Sequence 26, Appl
540	27	60.0	346	2	US-09-540-236-2001	Sequence 2001, Ap	613	27	60.0	668	2	US-10-104-047-2308	Sequence 2308, Ap
541	27	60.0	352	2	US-09-301-665-2	Sequence 2, Appl1	614	27	60.0	674	2	US-09-107-552A-5134	Sequence 5134, Ap
542	27	60.0	352	2	US-09-933-386-4	Sequence 4, Appl1	615	27	60.0	673	2	US-09-328-352-8094	Sequence 8094, Ap
543	27	60.0	354	2	US-09-198-452A-1108	Sequence 1108, Ap	616	27	60.0	675	2	US-09-252-991A-32681	Sequence 32681, A
544	27	60.0	355	2	US-09-270-767-42551	Sequence 42551, A	617	27	60.0	685	2	US-10-104-047-2916	Sequence 2916, Ap
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547	27	60.0	370	2	US-09-639-576-9	Sequence 9, Appl1	620	27	60.0	739	2	US-09-543-661A-64371	Sequence 64371, Ap
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549	27	60.0	376	2	US-09-583-110-4214	Sequence 4214, Ap	622	27	60.0	752	2	US-10-104-047-2991	Sequence 2991, Ap
550	27	60.0	376	2	US-09-107-433-3233	Sequence 3233, Ap	623	27	60.0	778	2	US-09-792-024-112	Sequence 112, App
551	27	60.0	381	2	US-09-949-016-8020	Sequence 8020, Ap	624	27	60.0	833	2	US-09-543-681A-5857	Sequence 5857, Ap
552	27	60.0	382	2	US-10-104-047-2948	Sequence 2948, Ap	625	27	60.0	837	2	US-09-605-972B-2290	Sequence 2290, Ap
553	27	60.0	383	2	US-09-252-991A-25535	Sequence 25535, A	626	27	60.0	853	2	US-09-625-923-25	Sequence 25, Appl
554	27	60.0	383	2	US-09-134-000C-4139	Sequence 4139, Ap	627	27	60.0	858	2	US-09-248-796A-19055	Sequence 19055, A
555	27	60.0	386	2	US-09-248-796A-16810	Sequence 16810, A	628	27	60.0	929	2	US-09-134-000C-6424	Sequence 6424, Ap
556	27	60.0	392	2	US-09-248-796A-19946	Sequence 19946, A	629	27	60.0	962	2	US-09-694-777A-24	Sequence 24, Appl
557	27	60.0	393	2	US-09-393-858-2	Sequence 2, Appl1	630	27	60.0	989	2	US-09-694-777A-23	Sequence 23, Appl
558	27	60.0	403	2	US-10-190-279-2	Sequence 2, Appl1	631	27	60.0	1012	1	US-07-944-943-2	Sequence 2, Appl1
559	27	60.0	403	2	US-09-248-796A-20669	Sequence 20669, A	632	27	60.0	1012	1	US-08-216-276A-19	Sequence 19, Appl
560	27	60.0	417	2	US-09-248-796A-18939	Sequence 18939, A	633	27	60.0	1012	1	US-07-944-525-2	Sequence 2, Appl1
561	27	60.0	422	2	US-09-328-352-4812	Sequence 4812, Ap	634	27	60.0	1012	1	US-08-219-262B-1	Sequence 1, Appl1
562	27	60.0	431	2	US-09-107-532A-5796	Sequence 5796, Ap	635	27	60.0	1012	1	US-08-219-262B-2	Sequence 2, Appl1
563	27	60.0	431	2	US-09-489-039A-12679	Sequence 12679, A	636	27	60.0	1012	1	US-08-219-262B-3	Sequence 3, Appl1
564	27	60.0	436	2	US-09-393-858-5	Sequence 5, Appl1	637	27	60.0	1012	1	US-08-219-262B-4	Sequence 4, Appl1
565	27	60.0	436	2	US-09-583-110-3142	Sequence 1142, Ap	638	27	60.0	1012	1	US-08-219-262B-5	Sequence 5, Appl1
566	27	60.0	436	2	US-10-190-279-5	Sequence 5, Appl1	639	27	60.0	1012	1	US-08-219-262B-6	Sequence 6, Appl1
567	27	60.0	438	2	US-09-107-433-3092	Sequence 3092, Ap	640	27	60.0	1012	1	US-08-219-262B-7	Sequence 7, Appl1
568	27	60.0	442	2	US-09-270-767-59249	Sequence 59249, A	641	27	60.0	1012	1	US-08-219-262B-8	Sequence 8, Appl1
569	27	60.0	448	2	US-09-342-681C-17	Sequence 17, Appl	642	27	60.0	1012	1	US-08-219-262B-10	Sequence 10, Appl
570	27	60.0	453	2	US-09-342-681C-19	Sequence 19, Appl	643	27	60.0	1012	1	US-08-219-262B-12	Sequence 12, Appl
571	27	60.0	453	2	US-09-664-895-2	Sequence 2, Appl1	644	27	60.0	1012	1	US-08-219-262B-14	Sequence 14, Appl
572	27	60.0	453	2	US-09-664-895-17	Sequence 17, Appl	645	27	60.0	1012	1	US-08-708-541A-30	Sequence 30, Appl
573	27	60.0	458	2	US-09-568-470A-1	Sequence 1, Appl1	646	27	60.0	1012	1	US-09-031-655-1	Sequence 1, Appl1
574	27	60.0	464	2	US-09-711-164-430	Sequence 430, App	647	27	60.0	1012	2	US-09-031-655-2	Sequence 2, Appl1
575	27	60.0	470	2	US-10-200-012-35	Sequence 35, Appl1	648	27	60.0	1012	2	US-09-031-655-3	Sequence 3, Appl1
576	27	60.0	473	2	US-09-701-896-2	Sequence 2, Appl1	649	27	60.0	1012	2	US-09-031-655-4	Sequence 4, Appl1
577	27	60.0	473	2	US-09-701-896-6	Sequence 6, Appl1	650	27	60.0	1012	2	US-09-031-655-5	Sequence 5, Appl1
578	27	60.0	473	2	US-09-701-896-6	Sequence 6, Appl1	651	27	60.0	1012	2	US-09-031-655-6	Sequence 6, Appl1
579	27	60.0	473	2	US-09-701-896-8	Sequence 8, Appl1	652	27	60.0	1012	2	US-09-031-655-7	Sequence 7, Appl1
580	27	60.0	480	2	US-09-252-991A-19726	Sequence 19726, A	653	27	60.0	1012	2	US-09-031-655-8	Sequence 8, Appl1
581	27	60.0	484	1	US-08-216-276A-17	Sequence 17, Appl	654	27	60.0	1012	2	US-09-031-655-9	Sequence 9, Appl1
582	27	60.0	490	2	US-09-438-185A-1034	Sequence 1034, Ap	655	27	60.0	1012	2	US-09-031-655-10	Sequence 10, Appl
583	27	60.0	490	2	US-10-104-047-2640	Sequence 2640, Ap	656	27	60.0	1012	2	US-09-031-655-11	Sequence 11, Appl
584	27	60.0	498	2	US-09-248-796A-26681	Sequence 26681, A	657	27	60.0	1012	2	US-09-031-655-12	Sequence 12, Appl
585	27	60.0	503	2	US-09-949-016-5886	Sequence 5886, Ap	658	27	60.0	1012	2	US-09-031-655-14	Sequence 14, Appl
586	27	60.0	506	2	US-09-489-039A-8941	Sequence 8941, Ap	659	27	60.0	1013	2	US-09-147-771-30	Sequence 30, Appl
587	27	60.0	507	2	US-09-328-352-4291	Sequence 4291, Ap	660	27	60.0	1013	1	US-08-708-541A-34	Sequence 34, Appl
588	27	60.0	509	2	US-09-270-767-43848	Sequence 43848, A	661	27	60.0	1034	2	US-09-147-771-34	Sequence 34, Appl
589	27	60.0	512	2	US-09-949-016-10601	Sequence 10601, A	662	27	60.0	1034	2	US-10-104-047-2343	Sequence 2343, Ap
590	27	60.0	525	2	US-09-489-039A-8570	Sequence 8570, Ap	663	27	60.0	1165	2	US-09-248-796A-15028	Sequence 15028, A
591	27	60.0	530	1	US-08-307-99-29	Sequence 29, Appl	664	27	60.0	1184	1	US-09-902-540-12897	Sequence 12897, A
592	27	60.0	530	2	US-09-289-268-29	Sequence 29, Appl	665	27	60.0	1184	2	US-08-918-914-1	Sequence 1, Appl1
593	27	60.0	534	2	US-09-252-991A-30725	Sequence 30725, A	666	27	60.0	1184	2	US-08-996-083-3	Sequence 3, Appl1
594	27	60.0	537	2	US-09-252-991A-31581	Sequence 31581, A	667	27	60.0	1184	2	US-09-991-181-124	Sequence 124, App
595	27	60.0	540	2	US-09-134-000C-3745	Sequence 3745, Ap	668	27	60.0	1184	2	US-09-990-444-124	Sequence 124, App
596	27	60.0	543	2	US-09-540-236-3630	Sequence 3630, Ap	669	27	60.0	1184	2	US-09-997-333-124	Sequence 124, App
597	27	60.0	546	2	US-09-252-991A-23143	Sequence 23143, A	670	27	60.0	1184	2	US-09-992-598-124	Sequence 124, App
598	27	60.0	556	2	US-09-270-767-45293	Sequence 45293, A	671	27	60.0	1278	2	US-09-604-957-3	Sequence 3, Appl1
599	27	60.0	564	2	US-09-538-092-660	Sequence 660, App	672	27	60.0	1381	2	US-09-662-254B-20	Sequence 20, Appl
600	27	60.0	587	2	US-08-714-741-42	Sequence 42, Appl	673	27	60.0	1444	2	US-09-949-016-9652	Sequence 9652, Ap
601	27	60.0	588	2	US-09-605-703B-2050	Sequence 2050, Ap	674	27	60.0	1495	2	US-10-037-417-111	Sequence 111, App
602	27	60.0	602	2	US-09-540-236-3263	Sequence 3263, Ap	675	27	60.0	1729	2	US-09-134-000C-5675	Sequence 5675, Ap
603	27	60.0	609	2	US-09-270-767-46418	Sequence 46418, A	676	27	60.0	1781	2	US-09-995-749A-2	Sequence 2, Appl1
604	27	60.0	627	2	US-09-360-545-2	Sequence 2, Appl1	677	27	60.0	1874	2	US-09-331-403-2	Sequence 2, Appl1
605	27	60.0	627	2	US-09-360-545-32	Sequence 32, Appl	678	27	60.0	2004	2	US-09-538-092-1371	Sequence 1371, Ap
606	27	60.0	627	2	US-09-398-395A-30	Sequence 30, Appl	679	27	60.0	2004	2	US-09-949-016-6756	Sequence 6756, Ap
607	27	60.0	627	2	US-09-387-586A-30	Sequence 30, Appl	680	27	60.0	2079	2	US-09-949-016-8301	Sequence 8301, Ap
608	27	60.0	627	2	US-09-895-752-30	Sequence 30, Appl	681	27	60.0	2167	2	US-09-487-558B-56	Sequence 56, Appl
609	27	60.0	627	2	US-09-903-012B-30	Sequence 30, Appl	682	27	60.0	2183	1	US-08-348-891A-7	Sequence 7, Appl1
610	27	60.0	627	2	US-09-900-797-30	Sequence 30, Appl	683	27	60.0	2183	1	US-08-905-817-7	Sequence 7, Appl1
611	27	60.0	627	2	US-09-893-820-30	Sequence 30, Appl	684	27	60.0	2504	2	US-09-328-352-5821	Sequence 5821, Ap

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686	27	60.0	3913	2	US-09-949-016-10933	Sequence 10933, A	759	26	57.8	160	1	US-07-847-010-3	Sequence 3, Appl1
687	27	60.0	4377	2	US-09-949-016-6978	Sequence 6978, Ap	760	26	57.8	162	2	US-09-270-767-58287	Sequence 58287, A
688	27	60.0	4536	2	US-09-180-422B-27	Sequence 27, Appl1	761	26	57.8	166	2	US-09-270-767-11146	Sequence 41146, A
689	27	60.0	4536	2	US-09-079-030-1	Sequence 1, Appl1	762	26	57.8	166	2	US-09-270-767-56362	Sequence 56362, A
690	27	60.0	4563	2	US-09-108-006C-1	Sequence 1, Appl1	763	26	57.8	170	2	US-09-248-796A-20240	Sequence 20240, A
691	27	60.0	4563	2	US-09-538-092-842	Sequence 842, App	764	26	57.8	173	2	US-08-937-271-15	Sequence 15, Appl1
692	26.5	58.9	420	2	US-09-248-796A-23880	Sequence 23880, A	765	26	57.8	177	2	US-10-104-047-3332	Sequence 3332, Ap
693	26.5	58.9	438	2	US-09-543-681A-8247	Sequence 8247, Ap	766	26	57.8	178	2	US-09-583-110-4001	Sequence 4001, Ap
694	26	57.8	9	2	US-09-344-040C-21	Sequence 21, Appl1	767	26	57.8	181	2	US-09-248-796A-27780	Sequence 27780, A
695	26	57.8	9	2	US-09-833-039A-21	Sequence 21, Appl1	768	26	57.8	181	2	US-09-325-932A-180	Sequence 180, App
696	26	57.8	9	2	US-09-408-036B-29	Sequence 29, Appl1	769	26	57.8	182	2	US-09-902-540-13998	Sequence 1398, A
697	26	57.8	15	2	US-08-914-479A-7	Sequence 7, Appl1	770	26	57.8	186	1	US-08-565-386-7	Sequence 7, Appl1
698	26	57.8	20	2	US-09-344-624-27	Sequence 27, Appl1	771	26	57.8	186	2	US-08-655-352-8	Sequence 8, Appl1
699	26	57.8	35	2	US-10-023-21A-22	Sequence 22, Appl1	772	26	57.8	186	2	US-09-258-016-8	Sequence 8, Appl1
700	26	57.8	43	2	US-10-318-675-46	Sequence 46, Appl1	773	26	57.8	186	2	US-09-257-825B-8	Sequence 8, Appl1
701	26	57.8	55	2	US-09-358-566D-11	Sequence 11, Appl1	774	26	57.8	186	2	US-09-583-110-4511	Sequence 4511, Ap
702	26	57.8	60	2	US-09-543-681A-4823	Sequence 4823, Ap	775	26	57.8	186	2	US-09-769-787-105	Sequence 105, App
703	26	57.8	61	2	US-09-543-681A-5073	Sequence 5073, Ap	776	26	57.8	187	2	US-08-937-271-8	Sequence 8, Appl1
704	26	57.8	63	2	US-09-107-433-2916	Sequence 2916, Ap	777	26	57.8	188	2	US-09-392-714-28	Sequence 28, Appl1
705	26	57.8	64	2	US-09-248-796A-23822	Sequence 23822, A	778	26	57.8	189	2	US-09-270-767-32311	Sequence 32311, A
706	26	57.8	67	2	US-08-937-271-20	Sequence 20, Appl1	779	26	57.8	189	2	US-09-270-767-17558	Sequence 17558, A
707	26	57.8	67	2	US-09-270-767-36147	Sequence 36147, A	780	26	57.8	190	2	US-09-583-110-3259	Sequence 3259, Ap
708	26	57.8	67	2	US-09-270-767-51364	Sequence 51364, A	781	26	57.8	190	2	US-09-583-110-3260	Sequence 3260, Ap
709	26	57.8	70	2	US-08-884-569A-6	Sequence 6, Appl1	782	26	57.8	190	2	US-09-583-110-3281	Sequence 3281, Ap
710	26	57.8	74	2	US-09-107-532A-7276	Sequence 7276, Ap	783	26	57.8	190	2	US-09-583-110-3946	Sequence 3946, Ap
711	26	57.8	76	2	US-09-270-767-55562	Sequence 55562, A	784	26	57.8	190	2	US-09-583-110-3202	Sequence 3202, Ap
712	26	57.8	82	2	US-09-270-767-57687	Sequence 57687, A	785	26	57.8	190	2	US-09-583-110-3915	Sequence 3915, Ap
713	26	57.8	89	2	US-09-107-433-2906	Sequence 2906, Ap	786	26	57.8	191	2	US-09-107-433-2918	Sequence 2918, Ap
714	26	57.8	89	2	US-09-107-433-2914	Sequence 2914, Ap	787	26	57.8	191	2	US-10-376-397B-8	Sequence 18, Appl1
715	26	57.8	89	2	US-09-107-433-2982	Sequence 2982, Ap	788	26	57.8	198	2	US-09-107-433-4068	Sequence 4068, Ap
716	26	57.8	91	2	US-09-583-110-2906	Sequence 2906, Ap	789	26	57.8	203	2	US-09-134-001C-3111	Sequence 3111, Ap
717	26	57.8	94	2	US-09-107-532A-5065	Sequence 5065, Ap	790	26	57.8	205	2	US-08-953-326-23	Sequence 23, Appl1
718	26	57.8	96	2	US-09-107-433-4144	Sequence 4144, Ap	791	26	57.8	205	2	US-09-353-662-23	Sequence 23, Appl1
719	26	57.8	97	1	US-08-479-078-2	Sequence 2, Appl1	792	26	57.8	205	2	US-10-062-994-23	Sequence 23, Appl1
720	26	57.8	97	2	US-09-248-796A-24838	Sequence 24838, A	793	26	57.8	218	2	US-09-508-710-12	Sequence 12, Appl1
721	26	57.8	99	2	US-09-107-433-3591	Sequence 3591, Ap	794	26	57.8	225	2	US-09-270-767-44807	Sequence 44807, A
722	26	57.8	105	2	US-09-270-767-46737	Sequence 46737, A	795	26	57.8	228	2	US-09-248-796A-20501	Sequence 20501, A
723	26	57.8	105	2	US-09-107-433-3874	Sequence 3874, Ap	796	26	57.8	228	2	US-09-270-767-44141	Sequence 44141, A
724	26	57.8	107	2	US-09-344-624-7	Sequence 7, Appl1	797	26	57.8	232	2	US-09-270-767-33078	Sequence 33078, A
725	26	57.8	108	2	US-09-248-796A-19197	Sequence 19197, A	798	26	57.8	236	2	US-09-270-767-18285	Sequence 48295, A
726	26	57.8	108	2	US-09-513-999C-5164	Sequence 5164, Ap	799	26	57.8	239	2	US-09-543-681A-6838	Sequence 6888, Ap
727	26	57.8	109	2	US-09-328-352-4485	Sequence 4485, Ap	800	26	57.8	240	2	US-09-134-000C-5098	Sequence 5098, Ap
728	26	57.8	113	2	US-09-710-279-3282	Sequence 3282, Ap	801	26	57.8	242	2	US-08-937-271-4	Sequence 4, Appl1
729	26	57.8	115	2	US-09-640-211A-660	Sequence 660, App	802	26	57.8	247	2	US-08-937-271-13	Sequence 13, Appl1
730	26	57.8	115	2	US-09-640-211A-2127	Sequence 2127, Ap	803	26	57.8	254	2	US-08-914-479A-4	Sequence 4, Appl1
731	26	57.8	115	2	US-10-142-835-32	Sequence 14, Appl1	804	26	57.8	254	2	US-09-270-767-42398	Sequence 42398, A
732	26	57.8	118	2	US-09-098-789-14	Sequence 14, Appl1	805	26	57.8	259	2	US-09-583-110-3996	Sequence 3996, Ap
733	26	57.8	118	2	US-09-270-767-40655	Sequence 40655, A	806	26	57.8	261	2	US-09-134-001C-5020	Sequence 5020, Ap
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735	26	57.8	118	2	US-09-270-767-56654	Sequence 56654, A	808	26	57.8	266	2	US-09-107-433-3925	Sequence 3925, Ap
736	26	57.8	120	2	US-09-270-767-41433	Sequence 41433, A	809	26	57.8	267	2	US-09-543-681A-8207	Sequence 8207, Ap
737	26	57.8	122	2	US-09-134-001C-3014	Sequence 3014, Ap	810	26	57.8	268	2	US-09-270-767-42961	Sequence 42961, A
738	26	57.8	123	2	US-09-149-476-596	Sequence 596, App	811	26	57.8	269	2	US-09-949-016-6927	Sequence 6927, Ap
739	26	57.8	123	2	US-09-583-110-5011	Sequence 5011, Ap	812	26	57.8	273	2	US-09-134-001C-3661	Sequence 3641, Ap
740	26	57.8	135	2	US-08-937-271-22	Sequence 22, Appl1	813	26	57.8	274	2	US-08-937-271-6	Sequence 6, Appl1
741	26	57.8	136	2	US-09-830-230A-46	Sequence 46, Appl1	814	26	57.8	275	2	US-09-328-352-7382	Sequence 7382, Ap
742	26	57.8	137	2	US-09-367-953B-113	Sequence 113, App	815	26	57.8	276	2	US-09-134-000C-4207	Sequence 4207, Ap
743	26	57.8	139	2	US-09-367-953B-116	Sequence 116, App	816	26	57.8	280	2	US-09-248-796A-20485	Sequence 20485, A
744	26	57.8	140	2	US-09-270-767-32498	Sequence 32498, A	817	26	57.8	284	2	US-08-914-479A-6	Sequence 6, Appl1
745	26	57.8	140	2	US-09-270-767-47715	Sequence 47715, A	818	26	57.8	284	2	US-09-540-226-1925	Sequence 1925, Ap
746	26	57.8	140	2	US-09-830-230A-534	Sequence 534, App	819	26	57.8	284	2	US-09-248-796A-19606	Sequence 19606, A
747	26	57.8	141	2	US-10-104-047-3225	Sequence 3225, Ap	820	26	57.8	287	2	US-08-937-271-2	Sequence 2, Appl1
748	26	57.8	142	2	US-09-570-921-43	Sequence 43, Appl1	821	26	57.8	290	2	US-09-710-279-3024	Sequence 3024, Ap
749	26	57.8	142	2	US-09-489-039A-11181	Sequence 11181, A	822	26	57.8	290	2	US-09-710-279-12252	Sequence 3252, Ap
750	26	57.8	149	2	US-09-733-210-1092	Sequence 1092, Ap	823	26	57.8	293	1	US-08-628-291-4	Sequence 4, Appl1
751	26	57.8	150	2	US-09-248-796A-18559	Sequence 18559, A	824	26	57.8	293	1	US-09-128-722-4	Sequence 4, Appl1
752	26	57.8	153	2	US-09-328-352-7034	Sequence 7034, Ap	825	26	57.8	295	2	US-09-248-796A-15656	Sequence 15656, A
753	26	57.8	155	2	US-09-830-230A-45	Sequence 45, Appl1	826	26	57.8	295	2	US-09-134-001C-3777	Sequence 3777, Ap
754	26	57.8	158	2	US-09-830-230A-533	Sequence 533, App	827	26	57.8	295	6	522394-9	Patent No. 522394
755	26	57.8	158	2	US-09-248-796A-25332	Sequence 25332, A	828	26	57.8	298	2	US-09-134-000C-5114	Sequence 5114, Ap
756	26	57.8	159	1	US-08-606-143-45	Sequence 45, Appl1	829	26	57.8	300	2	US-09-091-501B-11	Sequence 11, Appl1
757	26	57.8	159	2	US-09-270-767-45634	Sequence 45634, A	830	26	57.8	300	2	US-09-091-501B-12	Sequence 12, Appl1

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832	26	57.8	302	2	US-09-328-352-6911	Sequence 6911, Ap	905	26	57.8	431	2	US-09-489-039A-12670	Sequence 12670, A
833	26	57.8	305	2	US-08-937-271-10	Sequence 10, Appl	906	26	57.8	433	1	US-08-867-149-1	Sequence 1, Appl
834	26	57.8	306	2	US-09-270-767-34454	Sequence 34454, A	907	26	57.8	433	1	US-08-808-374-1	Sequence 1, Appl
835	26	57.8	306	2	US-09-270-767-43671	Sequence 43671, A	908	26	57.8	433	2	US-09-100-409A-1	Sequence 1, Appl
836	26	57.8	306	2	US-09-248-796A-23666	Sequence 23666, A	909	26	57.8	433	6	5171838-13	Patent No. 5171838
837	26	57.8	307	2	US-09-902-540-13955	Sequence 13955, A	910	26	57.8	434	1	US-08-457-918-4	Sequence 4, Appl
838	26	57.8	308	2	US-09-328-352-6762	Sequence 6762, Ap	911	26	57.8	434	2	US-10-157-408-4	Sequence 4, Appl
839	26	57.8	310	2	US-09-602-787A-662	Sequence 662, App	912	26	57.8	447	2	US-09-949-016-10534	Sequence 10534, A
840	26	57.8	311	2	US-09-583-110-4119	Sequence 4119, Ap	913	26	57.8	449	2	US-09-543-681A-6546	Sequence 6546, Ap
841	26	57.8	311	2	US-09-107-433-2862	Sequence 2862, Ap	914	26	57.8	453	1	US-08-132-990A-6	Sequence 6, Appl
842	26	57.8	312	2	US-08-821-872-2	Sequence 2, Appl	915	26	57.8	453	4	PCT-US92-09382-6	Sequence 9, Appl
843	26	57.8	312	2	US-09-107-532A-6621	Sequence 6621, Ap	916	26	57.8	457	2	US-08-328-500-9	Sequence 15, Appl
844	26	57.8	312	2	US-09-248-796A-15104	Sequence 15104, A	917	26	57.8	457	2	US-09-039-555B-15	Sequence 4, Appl
845	26	57.8	315	2	US-09-149-476-458	Sequence 458, App	918	26	57.8	458	2	US-08-466-368-4	Sequence 4, Appl
846	26	57.8	317	1	US-08-628-291-12	Sequence 12, Appl	919	26	57.8	458	2	US-08-466-368-4	Sequence 3, Appl
847	26	57.8	317	1	US-09-128-722-12	Sequence 12, Appl	920	26	57.8	458	2	US-09-517-605-3	Sequence 25, Appl
848	26	57.8	318	2	US-09-107-532A-6446	Sequence 6446, Ap	921	26	57.8	458	2	US-10-092-138A-25	Sequence 25, Appl
849	26	57.8	318	2	US-09-489-039A-9708	Sequence 9708, Ap	922	26	57.8	458	2	US-08-681-219A-25	Sequence 25, Appl
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851	26	57.8	324	2	US-09-248-796A-15787	Sequence 15787, A	924	26	57.8	462	1	US-08-417-495-5	Sequence 5, Appl
852	26	57.8	329	2	US-09-071-035-368	Sequence 368, App	925	26	57.8	462	1	US-08-284-391B-5	Sequence 5, Appl
853	26	57.8	329	2	US-10-206-576-368	Sequence 368, App	926	26	57.8	462	2	US-09-218-950-5	Sequence 5, Appl
854	26	57.8	333	2	US-09-328-352-6387	Sequence 6387, Ap	927	26	57.8	462	2	US-08-394-388A-5	Sequence 5, Appl
855	26	57.8	335	2	US-09-134-000C-4044	Sequence 4044, Ap	928	26	57.8	462	4	PCT-US92-01785-5	Sequence 5, Appl
856	26	57.8	343	2	US-08-937-271-17	Sequence 17, Appl	929	26	57.8	462	4	PCT-US95-00454-5	Sequence 5, Appl
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858	26	57.8	346	1	US-08-846-338-8	Sequence 8, Appl	931	26	57.8	475	2	US-09-107-433-4883	Sequence 4883, Ap
859	26	57.8	346	2	US-08-411-768B-2	Sequence 2, Appl	932	26	57.8	480	2	US-09-328-352-7877	Sequence 7877, Ap
860	26	57.8	348	2	US-09-071-035-52	Sequence 52, Appl	933	26	57.8	480	1	US-08-655-114-2	Sequence 2, Appl
861	26	57.8	348	2	US-10-206-576-52	Sequence 52, Appl	934	26	57.8	481	1	US-08-818-857-2	Sequence 2, Appl
862	26	57.8	351	2	US-09-614-912-8	Sequence 8, Appl	935	26	57.8	481	2	US-09-398-165-2	Sequence 2, Appl
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871	26	57.8	368	2	US-09-614-912-4	Sequence 4, Appl	944	26	57.8	490	1	US-08-238-821B-3	Sequence 9, Appl
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873	26	57.8	370	2	US-09-614-912-2	Sequence 2, Appl	946	26	57.8	490	2	US-09-949-016-5990	Sequence 5990, Ap
874	26	57.8	374	2	US-08-982-493-6	Sequence 6, Appl	947	26	57.8	490	4	PCT-US95-05744-3	Sequence 3, Appl
875	26	57.8	374	2	US-09-071-035-50	Sequence 50, Appl	948	26	57.8	490	4	PCT-US95-05744-9	Sequence 9, Appl
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878	26	57.8	382	2	US-09-134-000C-3829	Sequence 3829, Ap	951	26	57.8	493	2	US-09-447-453-4	Sequence 4, Appl
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880	26	57.8	383	2	US-09-489-039A-12482	Sequence 12482, A	953	26	57.8	503	2	US-09-382-258-2	Sequence 2, Appl
881	26	57.8	383	2	US-09-151-409-16	Sequence 16, Appl	954	26	57.8	503	2	US-09-395-115-2	Sequence 2, Appl
882	26	57.8	384	2	US-09-134-000C-4692	Sequence 4692, Ap	955	26	57.8	503	2	US-08-436-265-2	Sequence 2, Appl
883	26	57.8	385	2	US-09-248-796A-14377	Sequence 14377, A	956	26	57.8	503	2	US-09-679-187-2	Sequence 2, Appl
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885	26	57.8	392	2	US-09-270-767-45678	Sequence 45678, A	958	26	57.8	503	2	US-08-448-371A-2	Sequence 2, Appl
886	26	57.8	394	2	US-08-466-368-2	Sequence 2, Appl	959	26	57.8	503	2	US-09-267-963D-2	Sequence 2, Appl
887	26	57.8	394	2	US-08-328-500-2	Sequence 2, Appl	960	26	57.8	503	2	US-09-583-110-3357	Sequence 3357, Ap
888	26	57.8	394	2	US-09-248-796A-17011	Sequence 17011, A	961	26	57.8	503	4	PCT-US94-11388A-4	Sequence 4, Appl
889	26	57.8	394	6	5223418-2	Patent No. 5223418	962	26	57.8	503	4	PCT-US95-05467-2	Sequence 2, Appl
890	26	57.8	398	1	US-08-284-391B-29	Sequence 29, Appl	963	26	57.8	506	2	US-08-942-012B-25	Sequence 25, Appl
891	26	57.8	398	2	US-09-218-950-29	Sequence 29, Appl	964	26	57.8	506	6	5180581-2	Patent No. 5180581
892	26	57.8	398	2	US-08-394-388A-29	Sequence 29, Appl	965	26	57.8	513	2	US-09-107-532A-5261	Sequence 5261, Ap
893	26	57.8	399	2	US-09-489-039A-7814	Sequence 7814, Ap	966	26	57.8	513	2	US-09-248-796A-18734	Sequence 18734, A
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895	26	57.8	402	2	US-10-157-408-1	Sequence 1, Appl	968	26	57.8	521	2	US-09-370-368-4	Sequence 4, Appl
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897	26	57.8	406	2	US-10-272-490-52	Sequence 52, Appl	970	26	57.8	524	2	US-09-991-181-264	Sequence 264, App
898	26	57.8	409	2	US-09-240-936-2	Sequence 2, Appl	971	26	57.8	524	2	US-09-990-444-264	Sequence 264, App
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901	26	57.8	420	2	US-09-107-532A-4045	Sequence 4045, Ap	974	26	57.8	526	2	US-09-949-016-6263	Sequence 6263, Ap
902	26	57.8	420	2	US-10-104-047-2007	Sequence 2007, Ap	975	26	57.8	532	1	US-08-417-495-6	Sequence 6, Appl
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982 26 57.8 536 2 US-10-104-047-2780 Sequence 2780, Ap
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986 26 57.8 543 2 US-09-538-092-870 Sequence 870, App
987 26 57.8 543 2 US-09-977-261-14 Sequence 14, Appl
988 26 57.8 543 4 PCT-US95-05008-14 Sequence 2, Appli
989 26 57.8 550 2 US-09-166-460-2 Sequence 5, Appli
990 26 57.8 550 2 US-09-166-460-5 Sequence 7, Appli
991 26 57.8 550 2 US-09-166-460-7 Sequence 9, Appli
992 26 57.8 550 2 US-09-166-460-9 Sequence 11, Appl
993 26 57.8 550 2 US-09-166-460-11 Sequence 13, Appl
994 26 57.8 550 2 US-09-166-460-13 Sequence 15, Appl
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996 26 57.8 550 2 US-09-166-460-17 Sequence 19, Appl
997 26 57.8 550 2 US-09-166-460-19 Sequence 20, Appl
998 26 57.8 550 2 US-09-166-460-20 Sequence 21, Appl
999 26 57.8 550 2 US-09-166-460-21 Sequence 22, Appl
1000 26 57.8 550 2 US-09-166-460-22
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## ALIGNMENTS

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RESULT 1
US-08-247-904B-10
; Sequence 10, Application US/08247904B
; Patent No. 5981699
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; GENERAL INFORMATION:
; APPLICANT: Rolfe, Mark
; APPLICANT: Eckstein, Jens W.
; APPLICANT: Draetta, Giulio
; TITLE OF INVENTION: Human Ubiquitin Conjugating Enzyme
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley, Hoag & Eliot
; STREET: One Post Office Square
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII(text)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/247, 904B
; FILING DATE: 23-MAY-1994
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Vincent, Matthew P.
; REGISTRATION NUMBER: 36,709
; REFERENCE/DOCKET NUMBER: MIV-029.01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 832-1000
; TELEFAX: (617) 832-7000
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 158 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-247-904B-10
Query Match 100.0%; Score 45; DB 1; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.31;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Oy 1 DTLEKLTNT 9
Db 88 DTLEKLTNT 96
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RESULT 2
US-08-767-942A-19
; Sequence 19, Application US/08767942A
; Patent No. 6068982
;
; GENERAL INFORMATION:
; APPLICANT: Rolfe, Mark
; APPLICANT: Chiu, M. Isabel
; APPLICANT: Berlin, Vivian
; APPLICANT: Damagnez, Veronique
; APPLICANT: Draetta, Giulio
; APPLICANT: Guillaume, Cottarel
; TITLE OF INVENTION: UBIQUITIN CONJUGATING ENZYMES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY, HOAG & ELIOT LLP
; STREET: One Post Office Square
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109-2170
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/767, 942A
; FILING DATE: 17-DEC-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Vincent, Matthew P.
; REGISTRATION NUMBER: 36,709
; REFERENCE/DOCKET NUMBER: MIV-029.04
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-832-1000
; TELEFAX: 617-832-7000
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 158 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-767-942A-19
Query Match 100.0%; Score 45; DB 2; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.31;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 DTLEKLTNT 9
Db 88 DTLEKLTNT 96

RESULT 3
US-08-117-083-14
; Sequence 14, Application US/08117083
; Patent No. 5719054
;
; GENERAL INFORMATION:
; APPLICANT: Boursnell, Michael E.
; APPLICANT: Inglis, Stephen C.
; APPLICANT: Munro, Alan J.
; TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human
; NUMBER OF SEQUENCES: 70
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Walter H. Dregger
; STREET: 4 Embarcadero Center, Suite 3400
; CITY: San Francisco
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STATE: CA  
COUNTRY: USA  
ZIP: 94111  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/117,083  
FILING DATE: 10-SEP-1993  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Dreger, Walter H.  
REGISTRATION NUMBER: 24,190  
REFERENCE/DOCKET NUMBER: A-58783  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-781-1989  
TELEFAX: 415-398-3249  
TELEX: 910 277299  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 271 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
NAME/KEY: Protein  
LOCATION: 1..271  
OTHER INFORMATION: /note="Xaa refers to stop codon in  
OTHER INFORMATION: the open reading frame."  
US-08-117-083-14

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Best Local Similarity 100.0%; Pred. No. 0.56;  
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QY 1 DTLEKLTNT 9  
Db 89 DTLEKLTNT 97

RESULT 4  
US-09-485-885-21  
Sequence 21, Application US/09485885  
Patent No. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabazon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Fernande  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Benechikh, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 21  
LENGTH: 278  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-485-885-21

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Best Local Similarity 100.0%; Pred. No. 0.58;  
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QY 1 DTLEKLTNT 9  
Db 199 DTLEKLTNT 207

RESULT 5  
US-09-485-885-23  
Sequence 23, Application US/09485885  
Patent No. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabazon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Fernande  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Benechikh, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 23  
LENGTH: 383  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-485-885-23

Query Match 100.0%; Score 45; DB 2; Length 383;  
Best Local Similarity 100.0%; Pred. No. 0.82;  
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QY 1 DTLEKLTNT 9  
Db 199 DTLEKLTNT 207

RESULT 6  
US-08-159-339A-1173  
Sequence 1173, Application US/08159339A  
Patent No. 6037135  
GENERAL INFORMATION:  
APPLICANT: Kubo, Ralph T.  
APPLICANT: Grey, Howard M.  
APPLICANT: Sette, Alessandro  
APPLICANT: Celis, Esteban  
TITLE OF INVENTION: HLA Binding peptides and Their  
NUMBER OF SEQUENCES: 1254  
CORRESPONDENCE ADDRESS:  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/159,339A  
FILING DATE: 29-NOV-1993  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/926,666  
FILING DATE: 07-AUG-1992  
APPLICATION NUMBER: US 08/027,746  
FILING DATE: 05-MAR-1993

APPLICATION NUMBER: US 08/103,396  
FILING DATE: 06-AUG-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Weber, Ellen Lauer  
REGISTRATION NUMBER: 32,762  
REFERENCE/DOCKET NUMBER: 018623-005030US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
TELEX:  
INFORMATION FOR SEQ ID NO: 1173:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 11 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-159-339A-1173

Query Match 86.7%; Score 39; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 0.24;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TLEKLTNT 9  
Db 1 TLEKLTNT 8

RESULT 7  
US-07-683-957B-3  
Sequence 3, Application US/07683957B  
Patent No. 5310880  
GENERAL INFORMATION:  
APPLICANT: Donahoe, Patricia K.  
APPLICANT: Ragin, Richard C.  
APPLICANT: MacLaughlin, David T.  
TITLE OF INVENTION: Purification of M llerian Inhibiting  
TITLE OF INVENTION: Substance  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Sterne, Kessler, Goldstein & Fox  
STREET: 1100 New York Avenue, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/683,957B  
FILING DATE: 19910412  
CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldstein, Jorge A.  
REGISTRATION NUMBER: 29,021  
REFERENCE/DOCKET NUMBER: 0609.3060000  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 466-0800  
TELEFAX: (202) 833-8716  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 553 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-07-683-957B-3

Query Match 84.4%; Score 38; DB 1; Length 553;  
Best Local Similarity 77.8%; Pred. No. 28;  
Matches 7; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DTLEKLTNT 9  
Db 23 DTVEELTNT 31

RESULT 8  
US-09-107-433-4010  
Sequence 4010, Application US/09107433  
Patent No. 6800744  
GENERAL INFORMATION:  
APPLICANT: Lynn A Doucette-Stamm and David Bush  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID  
SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE FOR DIAGNOS  
THERAPEUTICS  
NUMBER OF SEQUENCES: 5206  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: GENOME THERAPEUTICS CORPORATION  
STREET: 100 Beaver Street  
CITY: Waltham  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02354  
COMPUTER READABLE FORM:  
MEDIUM TYPE: CD-ROM ISO9660  
COMPUTER: <Unknown>  
OPERATING SYSTEM: <Unknown>  
SOFTWARE: <Unknown>  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/107,433  
FILING DATE: 30-Jun-1998  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/085131  
FILING DATE: May 12, 1998  
APPLICATION NUMBER: 60/051553  
FILING DATE: July 2, 1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Ariniello, Pamela Deneka  
REGISTRATION NUMBER: 40,489  
REFERENCE/DOCKET NUMBER: GTC-011  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (781) 893-5007  
TELEFAX: (781) 893-8277  
INFORMATION FOR SEQ ID NO: 4010:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 180 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: YES  
ORIGINAL SOURCE:  
ORGANISM: Streptococcus pneumoniae  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (B) LOCATION 1...180  
SEQUENCE DESCRIPTION: SEQ ID NO: 4010:  
US-09-107-433-4010

Query Match 77.8%; Score 35; DB 2; Length 180;  
Best Local Similarity 87.5%; Pred. No. 31;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TLEKLTNT 9  
Db 159 TLEKLTNT 166

RESULT 9  
US-08-961-083-6  
Sequence 6, Application US/08961083  
Patent No. 6159469  
GENERAL INFORMATION:  
APPLICANT: Choi et. al.



TITLE OF INVENTION: Streptococcus pneumoniae Antigens and Vaccines  
NUMBER OF SEQUENCES: 452  
CORRESPONDENCE ADDRESS:  
ADDRESS: Human Genome Sciences, Inc.  
STREET: 9410 Key West Avenue  
CITY: Rockville  
STATE: Maryland  
COUNTRY: USA  
ZIP: 20850  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage  
COMPUTER: HP Vectra 486/33  
OPERATING SYSTEM: MSDOS version 6.2  
SOFTWARE: ASCII Text  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/961,083  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Brookes, A. Anders  
REGISTRATION NUMBER: 36,373  
REFERENCE/DOCKET NUMBER: PB340P2  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (301) 309-8504  
TELEFAX: (301) 309-8512  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 249 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-961-083-6

Query Match 77.8%; Score 35; DB 2; Length 249;  
Best Local Similarity 87.5%; Pred. No. 44;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TELEKLTNT 9  
Db 228 TELEKLTNT 235

RESULT 10  
US-09-536-784-6  
Sequence 6, Application US/09536784  
Patent No. 6573082  
GENERAL INFORMATION:  
APPLICANT: Choi et. al.  
TITLE OF INVENTION: Streptococcus pneumoniae Antigens and Vaccines  
NUMBER OF SEQUENCES: 452  
CORRESPONDENCE ADDRESS:  
ADDRESS: Human Genome Sciences, Inc.  
STREET: 9410 Key West Avenue  
CITY: Rockville  
STATE: Maryland  
COUNTRY: USA  
ZIP: 20850  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage  
COMPUTER: HP Vectra 486/33  
OPERATING SYSTEM: MSDOS version 6.2  
SOFTWARE: ASCII Text  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/536,784  
FILING DATE: 30-Oct-1997  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION NUMBER: 08/961,083  
FILING DATE: OCT-30-1997

ATTORNEY/AGENT INFORMATION:  
NAME: Michelle S. Marks  
REGISTRATION NUMBER: 41,971  
REFERENCE/DOCKET NUMBER: PB340P3  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (301) 309-8504  
TELEFAX: (301) 309-8512  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 249 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
US-09-536-784-6

Query Match 77.8%; Score 35; DB 2; Length 249;  
Best Local Similarity 87.5%; Pred. No. 44;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TELEKLTNT 9  
Db 228 TELEKLTNT 235

RESULT 11  
US-09-765-271-6  
Sequence 6, Application US/09765271  
Patent No. 6887663  
GENERAL INFORMATION:  
APPLICANT: Choi et. al.  
TITLE OF INVENTION: Streptococcus pneumoniae Antigens and Vaccines  
NUMBER OF SEQUENCES: 452  
CORRESPONDENCE ADDRESS:  
ADDRESS: Human Genome Sciences, Inc.  
STREET: 9410 Key West Avenue  
CITY: Rockville  
STATE: Maryland  
COUNTRY: USA  
ZIP: 20850  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage  
COMPUTER: HP Vectra 486/33  
OPERATING SYSTEM: MSDOS version 6.2  
SOFTWARE: ASCII Text  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/765,271  
FILING DATE: 22-Jan-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/536,784  
FILING DATE: <Unknown>  
APPLICATION NUMBER: 08/961,083  
FILING DATE: OCT-30-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Michelle S. Marks  
REGISTRATION NUMBER: 41,971  
REFERENCE/DOCKET NUMBER: PB340P3  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (301) 309-8504  
TELEFAX: (301) 309-8512  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 249 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
US-09-765-271-6

Query Match 77.8%; Score 35; DB 2; Length 249;

Best Local Similarity 87.5%; Pred. No. 44;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 2 TLEKLTNT 9  
Db 228 TLEKLSNT 235

## RESULT 12

US-09-765-272A-6  
Sequence 6, Application US/09765272A  
Patent No. 6929930  
GENERAL INFORMATION:  
APPLICANT: Choi et. al.  
TITLE OF INVENTION: Streptococcus pneumoniae Antigena and  
Vaccines  
NUMBER OF SEQUENCES: 454  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Human Genome Sciences, Inc.  
CITY: Rockville  
STATE: Maryland  
COUNTRY: USA  
ZIP: 20850  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 1.4mb storage  
COMPUTER: Dell Latitude C610  
OPERATING SYSTEM: Windows 2000  
SOFTWARE: ASCII Text  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/765,272A  
FILING DATE: 22-Jan-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/961,083  
FILING DATE: OCT-30-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Lin J. Hymel  
REGISTRATION NUMBER: 45,414  
REFERENCE/DOCKET NUMBER: PB340P2C2  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (301) 610-5790  
TELEFAX: (301) 309-8439  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 249 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
US-09-765-272A-6  
Query Match 77.8%; Score 35; DB 2; Length 249;  
Best Local Similarity 87.5%; Pred. No. 44;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 2 TLEKLTNT 9  
Db 228 TLEKLSNT 235

## RESULT 13

US-08-961-083-226  
Sequence 226, Application US/08961083  
Patent No. 6159469  
GENERAL INFORMATION:  
APPLICANT: Choi et. al.  
TITLE OF INVENTION: Streptococcus pneumoniae Antigena and Vaccines  
NUMBER OF SEQUENCES: 452  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Human Genome Sciences, Inc.  
STREET: 9410 Key West Avenue

CITY: Rockville  
STATE: Maryland  
COUNTRY: USA  
ZIP: 20850

## COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.50 inch, 1.4mb storage  
COMPUTER: HP Vectra 486/33  
OPERATING SYSTEM: MSDOS version 6.2  
SOFTWARE: ASCII Text  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/961,083  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Brookes, A. Anders  
REGISTRATION NUMBER: 36,373  
REFERENCE/DOCKET NUMBER: PB340P2  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (301) 309-8512  
TELEFAX: (301) 309-8504  
INFORMATION FOR SEQ ID NO: 226:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 250 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-961-083-226

Query Match 77.8%; Score 35; DB 2; Length 250;  
Best Local Similarity 87.5%; Pred. No. 44;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 2 TLEKLTNT 9  
Db 229 TLEKLSNT 236

## RESULT 14

US-09-536-784-226  
Sequence 226, Application US/09536784  
Patent No. 6573082  
GENERAL INFORMATION:  
APPLICANT: Choi et. al.  
TITLE OF INVENTION: Streptococcus pneumoniae Antigena and Vaccines  
NUMBER OF SEQUENCES: 452  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Human Genome Sciences, Inc.  
STREET: 9410 Key West Avenue  
CITY: Rockville  
STATE: Maryland  
COUNTRY: USA  
ZIP: 20850  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 1.4mb storage  
COMPUTER: HP Vectra 486/33  
OPERATING SYSTEM: MSDOS version 6.2  
SOFTWARE: ASCII Text  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/536,784  
FILING DATE: 30-Oct-1997  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/961,083  
FILING DATE: OCT-30-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Michelle S. Marks  
REGISTRATION NUMBER: 41,971  
REFERENCE/DOCKET NUMBER: PB340P3  
TELECOMMUNICATION INFORMATION:

TELEPHONE: (301) 309-8504  
TELEFAX: (301) 309-8512  
INFORMATION FOR SEQ ID NO: 226:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 250 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 226:

Query Match 77.8%; Score 35; DB 2; Length 250;  
Best Local Similarity 87.5%; Pred. No. 44;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 TELEKNT 9  
|||||:  
Db 229 TELEKNT 236

RESULT 15  
US-09-765-271-226  
Sequence 226, Application US/09765271  
Patent No. 6887663  
GENERAL INFORMATION:  
APPLICANT: Choi et. al.  
TITLE OF INVENTION: Streptococcus pneumoniae Antigens and Vaccines  
NUMBER OF SEQUENCES: 452  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Human Genome Sciences, Inc.  
STREET: 9410 Key West Avenue  
CITY: Rockville  
STATE: Maryland  
COUNTRY: USA  
ZIP: 20850  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 1.4MB storage  
COMPUTER: HP Vectra 486/33  
OPERATING SYSTEM: MSDOS version 6.2  
SOFTWARE: ASCII Text  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/765,271  
FILING DATE: 22-Jan-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/536,784  
FILING DATE: <Unknown>  
APPLICATION NUMBER: 08/961,083  
FILING DATE: OCT-30-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Michelle S. Marks  
REGISTRATION NUMBER: 41,971  
REFERENCE/DOCKET NUMBER: PB340P3  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (301) 309-8504  
TELEFAX: (301) 309-8512  
INFORMATION FOR SEQ ID NO: 226:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 250 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 226:  
US-09-765-271-226

Query Match 77.8%; Score 35; DB 2; Length 250;  
Best Local Similarity 87.5%; Pred. No. 44;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
QY 2 TELEKNT 9  
|||||:  
Db 229 TELEKNT 236

Db 229 TELEKNT 236

RESULT 16  
US-09-765-272A-226  
Sequence 226, Application US/09765272A  
Patent No. 6929930  
GENERAL INFORMATION:  
APPLICANT: Choi et. al.  
TITLE OF INVENTION: Streptococcus pneumoniae Antigens and Vaccines  
NUMBER OF SEQUENCES: 454  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Human Genome Sciences, Inc.  
STREET: 9410 Key West Avenue  
CITY: Rockville  
STATE: Maryland  
COUNTRY: USA  
ZIP: 20850  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 1.4MB storage  
COMPUTER: Dell Latitude C610  
OPERATING SYSTEM: Windows 2000  
SOFTWARE: ASCII Text  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/765,272A  
FILING DATE: 22-Jan-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/961,083  
FILING DATE: OCT-30-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Ilin J. Hymel  
REGISTRATION NUMBER: 45,414  
REFERENCE/DOCKET NUMBER: PB340P2C2  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (301) 610-5790  
TELEFAX: (301) 309-8439  
INFORMATION FOR SEQ ID NO: 226:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 250 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 226:  
US-09-765-272A-226

Query Match 77.8%; Score 35; DB 2; Length 250;  
Best Local Similarity 87.5%; Pred. No. 44;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 TELEKNT 9  
|||||:  
Db 229 TELEKNT 236

RESULT 17  
US-09-583-110-5299  
Sequence 5299, Application US/09583110  
Patent No. 6699703  
GENERAL INFORMATION:  
APPLICANT: Lynn Doucette-Stamm et al.  
TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus  
TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics  
FILE REFERENCE: PATH00-07A  
CURRENT APPLICATION NUMBER: US/09/583,110  
FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: US 09/107,433  
PRIOR FILING DATE: 1998-06-30  
PRIOR APPLICATION NUMBER: US 60/085,131  
PRIOR FILING DATE: 1998-05-12  
PRIOR APPLICATION NUMBER: US 60/051,553

PRIOR FILING DATE: 1997-07-02  
NUMBER OF SEQ ID NOS: 5322  
SEQ ID NO 5299  
LENGTH: 266  
TYPE: PRT  
ORGANISM: Streptococcus pneumoniae  
US-09-583-110-5299

Query Match 77.8%; Score 35; DB 2; Length 266;  
Best Local Similarity 87.5%; Pred. No. 47;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
Qy 2 DTLEKLTNT 9  
Db 245 TLEKLSNT 252

RESULT 18  
US-09-769-787-165  
Sequence 165, Application US/09769787  
Patent No. 6936252  
GENERAL INFORMATION:  
APPLICANT: Microbial Technics Limited  
APPLICANT: Gilbert, Christophe FG  
APPLICANT: Hansbro, Philip M  
TITLE OF INVENTION: Proteins  
FILE REFERENCE: PNC/P21129WO  
CURRENT APPLICATION NUMBER: US/09/769, 787  
CURRENT FILING DATE: 2001-01-26  
PRIOR APPLICATION NUMBER: GB 9816337.1  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: US 60/125164  
PRIOR FILING DATE: 1999-03-19  
NUMBER OF SEQ ID NOS: 388  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 165  
LENGTH: 266  
TYPE: PRT  
ORGANISM: Streptococcus pneumoniae  
US-09-769-787-165

Query Match 77.8%; Score 35; DB 2; Length 266;  
Best Local Similarity 87.5%; Pred. No. 47;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TLEKLTNT 9  
Db 245 TLEKLSNT 252

RESULT 19  
US-09-543-681A-5023  
Sequence 5023, Application US/09543681A  
Patent No. 6605709  
GENERAL INFORMATION:  
APPLICANT: GARY BRETON  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS  
FILE REFERENCE: 2709.1002-001  
CURRENT APPLICATION NUMBER: US/09/543, 681A  
CURRENT FILING DATE: 2000-04-05  
PRIOR APPLICATION NUMBER: US 60/128, 706  
PRIOR FILING DATE: 1999-04-09  
NUMBER OF SEQ ID NOS: 8344  
SEQ ID NO 5023  
LENGTH: 316  
TYPE: PRT  
ORGANISM: Proteus mirabilis  
US-09-543-681A-5023

Query Match 77.8%; Score 35; DB 2; Length 316;  
Best Local Similarity 66.7%; Pred. No. 57;  
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DTLEKLTNT 9  
Db 241 ETLEQITNT 249

RESULT 20  
US-08-466-285-4  
Sequence 4, Application US/08466285  
Patent No. 5753233  
GENERAL INFORMATION:  
APPLICANT: Bleul, Conrad  
APPLICANT: Gissmann, Lutz  
APPLICANT: Muller, Martin  
TITLE OF INVENTION: Seroreactive Epitopes On Proteins Of  
TITLE OF INVENTION: Human Papillomavirus (HPV)18  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &  
STREET: 1300 I Street, N.W., Suite 700  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20005-3315  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/466,285  
FILING DATE: 06-JUN-1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/164,768  
FILING DATE: 10-DEC-1993  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/947,992  
FILING DATE: 21-SEP-1992  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/696,953  
FILING DATE: 08-MAY-1991  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: P 40 15 044.5  
FILING DATE: 10-MAY-1990  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
NAME: Manspeizer, David A.  
REGISTRATION NUMBER: 37,540  
REFERENCE/DOCKET NUMBER: 05552.1075-03000  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202)408-4000  
TELEFAX: (202)408-4400  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 32 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-466-285-4

Query Match 75.6%; Score 34; DB 1; Length 32;  
Best Local Similarity 100.0%; Pred. No. 7.2;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 DTLEKLT 7  
Db 26 DTLEKLT 32

RESULT 21  
US-08-164-768-4  
; Sequence 4, Application US/08164768  
; Patent No. 6322794  
; GENERAL INFORMATION:  
; APPLICANT: BLEUL, Conrad  
; APPLICANT: GISSMANN, Lutz  
; APPLICANT: MULLER, Martin  
; TITLE OF INVENTION: SEROREACTIVE EPITOPES ON PROTEINS OF  
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS (HPV) 18  
; NUMBER OF SEQUENCES: 7  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: FINNEGAN, HENDERSON, FARABOW, GARRETT &  
; ADDRESS: DUNN, L.L.P.  
; STREET: 1300 I Street, N.W.  
; CITY: Washington  
; STATE: DC  
; COUNTRY: USA  
; ZIP: 20005  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; FILING DATE: 10-DEC-1993  
; CLASSIFICATION: 424  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fortman, David S.  
; REGISTRATION NUMBER: 33,694  
; REFERENCE/DOCKET NUMBER: 05552.1075-02000  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202) 408-4000  
; TELEFAX: (202) 408-4400  
; INFORMATION FOR SEQ. ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 32 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; US-08-164-768-4

Query Match 75.6%; Score 34; DB 2; Length 32;  
Best Local Similarity 100.0%; Pred. No. 7.2;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DTLEKLTN 7  
| | | | |  
Db 26 DTLEKLTN 32

RESULT 22  
US-07-847-010-23  
; Sequence 23, Application US/07847010  
; Patent No. 5693495  
; GENERAL INFORMATION:  
; APPLICANT: Breiteneder, Helmo  
; APPLICANT: Reikertorfer, Arnold  
; APPLICANT: Valenta, Rudolf  
; APPLICANT: Hoffmann - Sommergruber, Karin  
; APPLICANT: Breitenbach, Michael  
; APPLICANT: Kraft, Dietrich  
; APPLICANT: Rumpold, Helmut  
; APPLICANT: Scheiner, Otto  
; APPLICANT: Ebner, Christof  
; APPLICANT: Ferreira, Fatima  
; TITLE OF INVENTION: Allergens of Alder Pollen and  
; TITLE OF INVENTION: Applications Thereof  
; NUMBER OF SEQUENCES: 23

CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Pennie & Edmonds  
; STREET: 1155 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 10036-2711  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: IBM PC compatible  
; SOFTWARE: Patent Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; FILING DATE: 01-JUN-1992  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jones III, Harry C  
; REGISTRATION NUMBER: 20,280  
; REFERENCE/DOCKET NUMBER: 6530-010  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 790-9090  
; TELEFAX: (212) 869-9741/8864  
; TELEX: 66141 PENNIE  
; INFORMATION FOR SEQ. ID NO: 23:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 160 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; HYPOTHETICAL: NO  
; ORIGINAL SOURCE:  
; ORGANISM: Birch (Betula sp.)  
; IMMEDIATE SOURCE:  
; LIBRARY: POLLEN FROM ALLERCON AB, ENGELHOLM, SWEDEN  
; US-07-847-010-23

Query Match 75.6%; Score 34; DB 1; Length 160;  
Best Local Similarity 75.0%; Pred. No. 42;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DTLEKLTN 8  
| | | | |  
Db 94 DTLEKLTN 101

RESULT 23  
US-09-270-767-62218  
; Sequence 62218, Application US/09270767  
; Patent No. 6703491  
; GENERAL INFORMATION:  
; APPLICANT: Homburger et al.  
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
; FILE REFERENCE: File Reference: 7326-094  
; CURRENT APPLICATION NUMBER: US/09/270,767  
; NUMBER OF SEQ. ID NOS: 62517  
; CURRENT FILING DATE: 1999-03-17  
; SOFTWARE: Patent Ver. 2.0  
; SEQ. ID NO 62218  
; LENGTH: 328  
; TYPE: PRT  
; ORGANISM: Drosophila melanogaster  
; US-09-270-767-62218

Query Match 75.6%; Score 34; DB 2; Length 328;  
Best Local Similarity 87.5%; Pred. No. 93;  
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 DTLEKLTN 8  
| | | | |  
Db 172 DTLEKLTN 179

```
RESULT 24
US-09-270-767-36082
; Sequence 36082, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 36082
; LENGTH: 167
; TYPE: PRN
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-36082

Query Match      73.3%; Score 33; DB 2; Length 167;
Best Local Similarity 87.5%; Pred. No. 69;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 TLEKLTNT 9
      |||||
Db      160 TLEKLTNT 167

RESULT 25
US-09-270-767-51299
; Sequence 51299, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 51299
; LENGTH: 167
; TYPE: PRN
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-51299

Query Match      73.3%; Score 33; DB 2; Length 167;
Best Local Similarity 87.5%; Pred. No. 69;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 TLEKLTNT 9
      |||||
Db      160 TLEKLTNT 167

RESULT 26
US-09-107-433-4132
; Sequence 4132, Application US/09107433
; Patent No. 6800744
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucet-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID
; SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE FOR DIAGN
; THERAPEUTICS
; NUMBER OF SEQUENCES: 5206
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
```

```

; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD/ROM ISO9660
; COMPUTER: <Unknown>
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: <Unknown>
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,433
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/ 085131
; FILING DATE: May 12, 1998
; APPLICATION NUMBER: 60/051553
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Arinello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-011
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 4132:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 449 amino acids
; TYPE: amino acid
; TOPOLOGY: Linear
; MOLECULE TYPE: protein
; HYPOTHEICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Streptococcus pneumoniae
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (B) LOCATION 1...449
; SEQUENCE DESCRIPTION: SEQ ID NO: 4132:
US-09-107-433-4132

Query Match      73.3%; Score 33; DB 2; Length 449;
Best Local Similarity 66.7%; Pred. No. 26+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 DTLEKLTNT 9
      |::|||
Db      160 DTLEKLTNT 168

RESULT 27
US-09-583-110-3922
; Sequence 3922, Application US/09583110
; Patent No. 6699703
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucet-Stamm et al.
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; THERAPEUTICS
; FILE REFERENCE: PATH00-07A
; CURRENT APPLICATION NUMBER: US/09/583,110
; CURRENT FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/107,433
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: US 60/051,553
; PRIOR FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 5322
; SEQ ID NO 3922
; LENGTH: 454
; TYPE: PRN
; ORGANISM: Streptococcus pneumoniae
US-09-583-110-3922

Query Match      73.3%; Score 33; DB 2; Length 454;
Best Local Similarity 66.7%; Pred. No. 2.1e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

Oy 1 DTLEKLTNT 9  
|:|:|:|  
Db 165 DKIEKLTNT 173

RESULT 28  
US-09-270-767-62306  
; Sequence 62306, Application US/09270767  
; Patent No. 6703491  
; GENERAL INFORMATION:  
; APPLICANT: Homburger et al.  
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
; FILE REFERENCE: File Reference: 7326-094  
; CURRENT APPLICATION NUMBER: US/09/270,767  
; CURRENT FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 62517  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 62306  
; LENGTH: 592  
; TYPE: PRT  
; ORGANISM: Drosophila melanogaster  
; FEATURE:  
; OTHER INFORMATION: Xaa means any amino acid  
US-09-270-767-62306

Query Match 73.3%; Score 33; DB 2; Length 592;  
Best Local Similarity 75.0%; Pred. No. 2.8e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Oy 2 TLEKLTNT 9  
|:|:|:|  
Db 545 TFEKITNT 552

RESULT 29  
US-09-270-767-46693  
; Sequence 46693, Application US/09270767  
; Patent No. 6703491  
; GENERAL INFORMATION:  
; APPLICANT: Homburger et al.  
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
; FILE REFERENCE: File Reference: 7326-094  
; CURRENT APPLICATION NUMBER: US/09/270,767  
; CURRENT FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 62517  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 46693  
; LENGTH: 852  
; TYPE: PRT  
; ORGANISM: Drosophila melanogaster  
; FEATURE:  
; OTHER INFORMATION: Xaa means any amino acid  
US-09-270-767-46693

Query Match 73.3%; Score 33; DB 2; Length 852;  
Best Local Similarity 75.0%; Pred. No. 4.1e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Oy 2 TLEKLTNT 9  
|:|:|:|  
Db 545 TFEKITNT 552

RESULT 30  
US-09-328-352-5769  
; Sequence 5769, Application US/09328352  
; Patent No. 6562958  
; GENERAL INFORMATION:  
; APPLICANT: Gary L. Breton et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER  
; FILE REFERENCE: GTC99-03PA

; CURRENT APPLICATION NUMBER: US/09/328,352  
; CURRENT FILING DATE: 1999-06-04  
; NUMBER OF SEQ ID NOS: 8252  
; SEQ ID NO 5769  
; LENGTH: 297  
; TYPE: PRT  
; ORGANISM: Acinetobacter baumannii  
US-09-328-352-5769

Query Match 71.1%; Score 32; DB 2; Length 297;  
Best Local Similarity 66.7%; Pred. No. 2e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Oy 1 DTLEKLTNT 9  
|:|:|:|  
Db 112 DTLEKLTNT 120

RESULT 31  
US-09-107-532A-3672  
; Sequence 3672, Application US/09107532A  
; Patent No. 6583275  
; GENERAL INFORMATION:  
; APPLICANT: Lynn A Doucette-Stamm and David Bush  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO  
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS  
; NUMBER OF SEQUENCES: 7310  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION  
; STREET: 100 Beaver Street  
; CITY: Waltham  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02354  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: CD-ROM ISO9660  
; COMPUTER: PC  
; OPERATING SYSTEM: <Unknown>  
; SOFTWARE: ASCII  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/107,532A  
; FILING DATE: 30-Jun-1998  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 60/085,598  
; FILING DATE: 14 May 1998  
; APPLICATION NUMBER: 60/051571  
; FILING DATE: July 2, 1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Arinello, Pamela Dencke  
; REGISTRATION NUMBER: 40,489  
; REFERENCE/DOCKET NUMBER: GTC-012  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (781)893-5007  
; TELEFAX: (781)893-8277  
; INFORMATION FOR SEQ ID NO: 3672:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 469 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; HYPOTHEICAL: YES  
; ORIGINAL SOURCE:  
; ORGANISM: Enterococcus faecium  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (8) LOCATION 1...469  
; SEQUENCE DESCRIPTION: SEQ ID NO: 3672:  
US-09-107-532A-3672

Query Match 71.1%; Score 32; DB 2; Length 469;  
Best Local Similarity 75.0%; Pred. No. 3.3e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 DTLEKLTN 8  
| | | | |  
Db 433 DILEKMTN 440

## RESULT 32

US-09-248-796A-17352  
; Sequence 17352, Application US/09248796A  
; Patent No. 6747137  
; GENERAL INFORMATION:  
; APPLICANT: Keith Weinstock et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN  
; FILE REFERENCE: 107196.132  
; CURRENT APPLICATION NUMBER: US/09/248,796A  
; PRIOR FILING DATE: 1999-02-12  
; PRIOR APPLICATION NUMBER: US 60/074,725  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: US 60/096,409  
; PRIOR FILING DATE: 1998-08-13  
; NUMBER OF SEQ ID NOS: 28208  
; SEQ ID NO 17352  
; LENGTH: 625  
; TYPE: PRT  
; ORGANISM: Candida albicans  
US-09-248-796A-17352

## Query Match

Best Local Similarity 71.1%; Score 32; DB 2; Length 625;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 DTLEKLTN 8  
| | | | |  
Db 184 DKLEKLTN 191

## RESULT 33

US-09-248-796A-24131  
; Sequence 24131, Application US/09248796A  
; Patent No. 6747137  
; GENERAL INFORMATION:  
; APPLICANT: Keith Weinstock et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN  
; FILE REFERENCE: 107196.132  
; CURRENT APPLICATION NUMBER: US/09/248,796A  
; PRIOR FILING DATE: 1999-02-12  
; PRIOR APPLICATION NUMBER: US 60/074,725  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: US 60/096,409  
; PRIOR FILING DATE: 1998-08-13  
; NUMBER OF SEQ ID NOS: 28208  
; SEQ ID NO 24131  
; LENGTH: 121  
; TYPE: PRT  
; ORGANISM: Candida albicans  
US-09-248-796A-24131

## Query Match

Best Local Similarity 68.9%; Score 31; DB 2; Length 121;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 1 DTLEKLTN 9  
| | | | |  
Db 22 DTVEKLVET 30

## RESULT 34

US-09-543-681A-6662  
; Sequence 6662, Application US/09543681A  
; Patent No. 6605709  
; GENERAL INFORMATION:  
; APPLICANT: GARY BRETON

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS  
; FILE REFERENCE: 2709.1002-001  
; CURRENT APPLICATION NUMBER: US/09/543,681A  
; PRIOR FILING DATE: 2000-04-05  
; PRIOR APPLICATION NUMBER: US 60/128,706  
; PRIOR FILING DATE: 1999-04-09  
; NUMBER OF SEQ ID NOS: 8344  
; SEQ ID NO 6662  
; LENGTH: 200  
; TYPE: PRT  
; ORGANISM: Proteus mirabilis  
US-09-543-681A-6662

## Query Match

Best Local Similarity 68.9%; Score 31; DB 2; Length 200;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 DTLEKLTN 9  
| | | | |  
Db 177 NNLEKLSNT 185

## RESULT 35

US-08-928-692-31  
; Sequence 31, Application US/08928692  
; Patent No. 5958727  
; GENERAL INFORMATION:  
; APPLICANT: Brody, Howard  
; APPLICANT: Yaver, Deborah S.  
; APPLICANT: Lamsa, Michael  
; APPLICANT: Hansen, Kim  
; TITLE OF INVENTION: Methods for Modifying the Production of  
; TITLE OF INVENTION: a Polypeptide  
; NUMBER OF SEQUENCES: 80  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSEE: No. 5958727e No. 5958727disk of No. 5958727th America, Inc.  
; STREET: 405 Lexington Avenue  
; CITY: New York  
; STATE: NY  
; COUNTRY: USA  
; ZIP: 10174  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for windows version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/928,692  
; FILING DATE: 12-SEPT-1997  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Lambitis, Elias J  
; REGISTRATION NUMBER: 33,728  
; REFERENCE/DOCKET NUMBER: 4944.200-US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 212-867-0123  
; TELEFAX: 212-878-9655  
; INFORMATION FOR SEQ ID NO: 31:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 233 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: No. 5958727e  
US-08-928-692-31

## Query Match

Best Local Similarity 77.8%; Score 31; DB 1; Length 233;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 DTLEKLTN 9  
| | | | |



Db 141 DELIKTNT 149

## RESULT 36

US-09-339-972-31  
; Sequence 31, Application US/09339972  
; Patent No. 6323002

## GENERAL INFORMATION:

APPLICANT: Brody, Howard  
APPLICANT: Yaver, Deborah S.  
APPLICANT: Lamas, MichaelAPPLICANT: Hansen, Kim  
TITLE OF INVENTION: Methods for Modifying the Production of  
TITLE OF INVENTION: a Polypeptide  
NUMBER OF SEQUENCES: 80

## CORRESPONDENCE ADDRESS:

ADDRESSEE: No. 63230020 No. 6323002disk of No. 6323002th America, Inc.  
STREET: 405 Lexington Avenue  
CITY: New York  
STATE: NYCOUNTRY: USA  
ZIP: 10174

## COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: Pasteo for Windows Version 2.0

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/339,972

## FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/928,692

## FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Lambiris, Elias J

REGISTRATION NUMBER: 33,728

REFERENCE/DOCKET NUMBER: 4944.200-US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 212-867-0123

TELEFAX: 212-878-9655

INFORMATION FOR SEQ ID NO: 31:

SEQUENCE CHARACTERISTICS:

LENGTH: 233 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: No. 6323002e

US-09-339-972-31

Query Match 68.9%; Score 31; DB 2; Length 233;  
Best Local Similarity 77.8%; Pred. No. 2.4e+02;

Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DTLEKLTNT 9  
Db 141 DELIKTNT 149

## RESULT 37

US-09-248-796A-19850  
; Sequence 19850, Application US/09248796A  
; Patent No. 6747137

## GENERAL INFORMATION:

APPLICANT: Keith Weinstein et al

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN

TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 107196.132

CURRENT APPLICATION NUMBER: US/09/248,796A

CURRENT FILING DATE: 1999-02-12

PRIOR APPLICATION NUMBER: US 60/074,725

PRIOR FILING DATE: 1998-02-13

PRIOR APPLICATION NUMBER: US 60/096,409

PRIOR FILING DATE: 1998-08-13  
; NUMBER OF SEQ ID NOS: 28208  
; SEQ ID NO 19850

LENGTH: 236

TYPE: PRT

ORGANISM: Candida albicans

US-09-248-796A-19850

Query Match 68.9%; Score 31; DB 2; Length 236;  
Best Local Similarity 85.7%; Pred. No. 2.4e+02;

Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 LEXLTNT 9  
Db 52 LDKLTNT 58

## RESULT 38

US-09-328-352-7066  
; Sequence 7066, Application US/09328352  
; Patent No. 6562958

## GENERAL INFORMATION:

APPLICANT: Gary L. Breton et al.

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER

TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: GTC99-03PA

CURRENT APPLICATION NUMBER: US/09/328,352

CURRENT FILING DATE: 1999-06-04

NUMBER OF SEQ ID NOS: 8252

SEQ ID NO 7066

LENGTH: 271

TYPE: PRT

ORGANISM: Acinetobacter baumannii

US-09-328-352-7066

Query Match 68.9%; Score 31; DB 2; Length 271;  
Best Local Similarity 75.0%; Pred. No. 2.8e+02;

Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9  
Db 11 TSEKLTNT 18

## RESULT 39

US-09-248-796A-18996  
; Sequence 18996, Application US/09248796A  
; Patent No. 6747137

## GENERAL INFORMATION:

APPLICANT: Keith Weinstein et al

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN

TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 107196.132

CURRENT APPLICATION NUMBER: US/09/248,796A

CURRENT FILING DATE: 1999-02-12

PRIOR APPLICATION NUMBER: US 60/074,725

PRIOR FILING DATE: 1998-02-13

PRIOR APPLICATION NUMBER: US 60/096,409

PRIOR FILING DATE: 1998-08-13

NUMBER OF SEQ ID NOS: 28208

SEQ ID NO 18996

LENGTH: 305

TYPE: PRT

ORGANISM: Candida albicans

US-09-248-796A-18996

Query Match 68.9%; Score 31; DB 2; Length 305;  
Best Local Similarity 75.0%; Pred. No. 3.2e+02;

Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DTLEKLTNT 8  
Db 124 DTLEKLTNT 131

RESULT 40  
US-08-891-254-1  
Sequence 1, Application US/08891254  
Patent No. 5776889  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Beer, Steven V.  
TITLE OF INVENTION: Hypersensitive Response  
TITLE OF INVENTION: Induced Resistance In Plants  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/891,254  
FILING DATE: 10-JUL-1997  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/475,775  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 14603/10050  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 338 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-891-254-1  
Query Match 68.9%; Score 31; DB 1; Length 338;  
Best Local Similarity 75.0%; Pred. No. 3.6e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
QY 1 DTLEKLTN 8  
Db 117 DTVTKLTN 124  
RESULT 41  
US-08-484-358-2  
Sequence 2, Application US/08484358  
Patent No. 5850015  
GENERAL INFORMATION:  
APPLICANT: Bauer, David  
APPLICANT: Collier, Alan  
TITLE OF INVENTION: Hypersensitive Response Elicitor  
TITLE OF INVENTION: From  
TITLE OF INVENTION: Ertwila Chrysanthemi  
NUMBER OF SEQUENCES: 6  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
STREET: Clinton Square  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.

ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/484,358  
FILING DATE:  
CLASSIFICATION: 800  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/840  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 716-263-1304  
TELEFAX: 716-263-1600  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 338 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-484-358-2  
Query Match 68.9%; Score 31; DB 1; Length 338;  
Best Local Similarity 75.0%; Pred. No. 3.6e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
QY 1 DTLEKLTN 8  
Db 117 DTVTKLTN 124  
RESULT 42  
US-08-819-539-1  
Sequence 1, Application US/08819539  
Patent No. 5859324  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Beer, Steven V.  
TITLE OF INVENTION: Hypersensitive Response  
TITLE OF INVENTION: Induced Resistance In Plants  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/819,539  
FILING DATE: 17-MAR-1997  
CLASSIFICATION: 800  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/475,775  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 14603/10050  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:

LENGTH: 338 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-819-539-1

Query Match 68.9%; Score 31; DB 1; Length 338;  
Best Local Similarity 75.0%; Pred. No. 3.6e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DTLEKLTN 8  
DB 117 DTVTKLTN 124

RESULT 43  
US-09-030-270A-1  
Sequence 1, Application US/09030270A  
Patent No. 5977060  
GENERAL INFORMATION:  
APPLICANT: Zitler, Thomas A.  
APPLICANT: Wei, Zhong-Min  
TITLE OF INVENTION: INSECT CONTROL WITH A  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: P.O. Box 1051, Clinton Square  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/030,270A  
FILING DATE:  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/039,226  
FILING DATE: 28-FEB-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1521  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 338 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-030-270A-1

Query Match 68.9%; Score 31; DB 1; Length 338;  
Best Local Similarity 75.0%; Pred. No. 3.6e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DTLEKLTN 8  
DB 117 DTVTKLTN 124

RESULT 44  
US-09-118-959-2  
Sequence 2, Application US/09118959

Patent No. 6001959  
GENERAL INFORMATION:  
APPLICANT: Bauer, David  
APPLICANT: Collmer, Alan  
TITLE OF INVENTION: Hypersensitive Response Elicitor From  
TITLE OF INVENTION: Erwinia Chrysanthemi  
NUMBER OF SEQUENCES: 6  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
STREET: Clinton Square  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/118,959  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/840  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 716-263-1304  
TELEFAX: 716-263-1600  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 338 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-118-959-2

Query Match 68.9%; Score 31; DB 2; Length 338;  
Best Local Similarity 75.0%; Pred. No. 3.6e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DTLEKLTN 8  
DB 117 DTVTKLTN 124

RESULT 45  
US-08-984-207-1  
Sequence 1, Application US/08984207  
Patent No. 6235974  
GENERAL INFORMATION:  
APPLICANT: Oiu, Dewen  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Beer, Steven V.  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED  
TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: P.O. Box 1051, Clinton Square  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/984,207

FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/033,230  
FILING DATE: 05-DEC-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1201  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 338 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-984-207-1

Query Match 68.9%; Score 31; DB 2; Length 338;  
Best Local Similarity 75.0%; Pred. No. 3.6e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DTLEKLTN 8  
DB 117 DTVTKLTN 124

RESULT 46  
US-09-013-587-1  
Sequence 1, Application US/09013587  
Patent No. 6277814  
GENERAL INFORMATION:  
APPLICANT: Qiu, Dewen  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Beer, Steven V.  
TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/013,587  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/036,048  
FILING DATE: 27-JAN-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1501  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 338 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein

US-09-013-587-1

Query Match 68.9%; Score 31; DB 2; Length 338;  
Best Local Similarity 75.0%; Pred. No. 3.6e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DTLEKLTN 8  
DB 117 DTVTKLTN 124

RESULT 47  
US-09-086-118-21  
Sequence 21, Application US/09086118  
Patent No. 6583107  
GENERAL INFORMATION:  
APPLICANT: Lady, Ronald J.  
APPLICANT: Beer, Steven V.  
APPLICANT: Wei, Zhong-Min  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES  
NUMBER OF SEQUENCES: 30  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/086,118  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/048,109  
FILING DATE: 30-MAY-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1301  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 21:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 338 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-086-118-21

Query Match 68.9%; Score 31; DB 2; Length 338;  
Best Local Similarity 75.0%; Pred. No. 3.6e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DTLEKLTN 8  
DB 117 DTVTKLTN 124

RESULT 48  
US-09-431-614-1  
Sequence 1, Application US/09431614  
Patent No. 6624139  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min

APPLICANT: Schading, Richard L.  
 TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS  
 TITLE OF INVENTION: RESISTANCE  
 FILE REFERENCE: 21829/41 (EBC-003)  
 CURRENT APPLICATION NUMBER: US/09/431,614  
 CURRENT FILING DATE: 1999-11-02  
 EARLIER APPLICATION NUMBER: 60/107,243  
 EARLIER FILING DATE: 1998-11-05  
 NUMBER OF SEQ ID NOS: 18  
 SOFTWARE: PatentIn Ver. 2.0  
 SEQ ID NO: 1  
 LENGTH: 338  
 TYPE: PRT  
 ORGANISM: Erwinia chrysanthemi  
 US-09-431-614-1

Query Match 68.9%; Score 31; DB 2; Length 338;  
 Best Local Similarity 75.0%; Pred. No. 3.6e+02;  
 Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DTLEKLTN 8  
 DB 117 DTVTKLTN 124

RESULT 49  
 US-09-412-100-21  
 Sequence 21, Application US/09412100  
 Patent No. 6858707  
 GENERAL INFORMATION:  
 APPLICANT: Wei, Zhong-Min  
 APPLICANT: Pan, Hao  
 APPLICANT: Niggemeyer, Jennifer L.  
 TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FRAGMENTS WHICH ARE  
 TITLE OF INVENTION: ACTIVE BUT DO NOT ELICIT A HYPERSENSITIVE RESPONSE  
 FILE REFERENCE: 21829/31 (EBC-002)  
 CURRENT APPLICATION NUMBER: US/09/412,100  
 CURRENT FILING DATE: 1999-10-04  
 EARLIER APPLICATION NUMBER: 60/103,050  
 EARLIER FILING DATE: 1998-10-05  
 NUMBER OF SEQ ID NOS: 39  
 SOFTWARE: PatentIn Ver. 2.0  
 SEQ ID NO: 21  
 LENGTH: 338  
 TYPE: PRT  
 ORGANISM: Erwinia chrysanthemi  
 US-09-412-100-21

Query Match 68.9%; Score 31; DB 2; Length 338;  
 Best Local Similarity 75.0%; Pred. No. 3.6e+02;  
 Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DTLEKLTN 8  
 DB 117 DTVTKLTN 124

RESULT 50  
 PCT-US96-08819-1  
 Sequence 1, Application PC/TUS9608819  
 GENERAL INFORMATION:  
 APPLICANT: Cornell Research Foundation, Inc.  
 TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED  
 TITLE OF INVENTION: RESISTANCE IN PLANTS  
 NUMBER OF SEQUENCES: 9  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
 STREET: Clinton Square, P.O. Box 1051  
 CITY: Rochester  
 STATE: New York  
 COUNTRY: U.S.A.  
 ZIP: 14603  
 COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: PCT/US96/08819  
 FILING DATE:  
 CLASSIFICATION:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/475,775  
 FILING DATE: 07-JUN-1995  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Goldman, Michael L.  
 REGISTRATION NUMBER: 30,727  
 REFERENCE/DOCKET NUMBER: 19603/10051  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (716) 263-1304  
 TELEFAX: (716) 263-1600  
 INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 338 amino acids  
 TYPE: amino acid  
 STRANDEDNESS:  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 PCT-US96-08819-1

Query Match 68.9%; Score 31; DB 4; Length 338;  
 Best Local Similarity 75.0%; Pred. No. 3.6e+02;  
 Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DTLEKLTN 8  
 DB 117 DTVTKLTN 124

Search completed: May 5, 2006, 04:01:06  
 Job time: 25 secs

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GenCore version 5.1.7  
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:07:45 ; Search time 55.8 Seconds  
(without alignments)  
67.392 Million cell updates/sec

Title: US-08-170-344-28  
Perfect score: 45  
Sequence: 1 DTLEKLTNT 9

Scoring table: BIOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues  
Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database :  
1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*  
2: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep.\*  
3: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep.\*  
4: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*  
5: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*  
6: /cgn2\_6/ptodata/1/pubpaa/US11\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	45	100.0	27	5	US-10-751-845-153 Sequence 153, App
2	45	100.0	119	5	US-10-751-845-159 Sequence 159, App
3	45	100.0	158	5	US-10-800-023-27 Sequence 27, Appl
4	45	100.0	158	6	US-11-021-949-28 Sequence 28, Appl
5	45	100.0	172	4	US-10-472-724-6 Sequence 6, Appl
6	45	100.0	236	5	US-10-751-845-157 Sequence 157, App
7	45	100.0	237	5	US-10-751-845-158 Sequence 158, App
8	45	100.0	261	5	US-10-751-845-160 Sequence 160, App
9	45	100.0	278	4	US-10-000-903-21 Sequence 21, Appl
10	45	100.0	278	4	US-10-899-771-21 Sequence 21, Appl
11	45	100.0	283	4	US-10-000-903-23 Sequence 23, Appl
12	45	100.0	383	5	US-10-899-771-23 Sequence 23, Appl
13	39	86.7	158	6	US-11-021-949-29 Sequence 29, Appl
14	36	80.0	181	5	US-10-739-930-6845 Sequence 6845, Ap
15	36	80.0	1087	6	US-11-097-143-22866 Sequence 22866, A
16	36	80.0	1087	6	US-11-097-143-22869 Sequence 22869, A
17	35	77.8	115	3	US-09-824-787B-2 Sequence 2, Appl
18	35	77.8	115	4	US-10-435-696-93 Sequence 93, Appl
19	35	77.8	115	4	US-10-457-829-2 Sequence 2, Appl
20	35	77.8	115	5	US-10-887-230-2 Sequence 2, Appl
21	35	77.8	115	5	US-10-885-588-86 Sequence 86, Appl
22	35	77.8	115	6	US-11-003-819-2 Sequence 2, Appl
23	35	77.8	117	3	US-09-833-203-34 Sequence 34, Appl
24	35	77.8	124	4	US-10-264-049-4187 Sequence 4187, Ap
25	35	77.8	124	3	US-09-925-301-966 Sequence 966, App
26	35	77.8	131	4	US-10-457-829-155 Sequence 155, App
27	35	77.8	180	5	US-10-617-320-4010 Sequence 4010, Ap

28	35	77.8	206	4	US-10-177-293-480
29	35	77.8	249	6	US-09-765-272-6
30	35	77.8	249	6	US-11-106-649-6
31	35	77.8	250	3	US-09-765-272-226
32	35	77.8	250	6	US-11-106-649-226
33	35	77.8	266	3	US-09-769-787-165
34	35	77.8	271	5	US-10-472-928-1130
35	35	77.8	303	4	US-10-369-493-1100
36	35	77.8	463	5	US-10-732-923-20255
37	35	77.8	594	5	US-10-732-923-20254
38	35	77.8	603	5	US-10-732-923-20252
39	35	77.8	603	5	US-10-732-923-20253
40	35	77.8	982	4	US-10-369-493-10074
41	35	77.8	1211	4	US-10-282-122A-69274
42	35	77.8	1214	4	US-10-282-122A-69275
43	34	75.6	9	3	US-09-824-787B-117
44	34	75.6	9	4	US-10-457-829-117
45	34	75.6	31	4	US-10-026-911-6
46	34	75.6	80	5	US-10-799-514-19
47	34	75.6	149	6	US-10-799-514-19
48	34	75.6	153	5	US-10-799-514-21
49	34	75.6	153	5	US-10-799-514-21
50	34	75.6	159	3	US-09-981-009B-1
51	34	75.6	159	3	US-09-847-208-34
52	34	75.6	159	3	US-09-847-208-36
53	34	75.6	159	3	US-09-847-208-37
54	34	75.6	159	3	US-09-847-208-38
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62	34	75.6	159	4	US-10-001-245-92
63	34	75.6	159	4	US-10-719-553-37
64	34	75.6	159	4	US-10-698-855-5
65	34	75.6	160	4	US-10-001-245-1
66	34	75.6	160	4	US-10-001-245-6
67	34	75.6	160	4	US-10-001-245-8
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69	34	75.6	160	4	US-10-440-516-1
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71	34	75.6	160	5	US-10-799-514-7
72	34	75.6	160	5	US-10-809-689-87
73	34	75.6	260	4	US-10-282-122A-62329
74	34	75.6	260	4	US-10-282-122A-64645
75	34	75.6	292	4	US-10-408-765A-1939
76	34	75.6	327	4	US-10-264-049-2290
77	34	75.6	660	4	US-10-425-115-287895
78	33	73.3	141	4	US-10-425-115-284442
79	33	73.3	199	4	US-10-425-115-352211
80	33	73.3	366	4	US-10-437-966-146275
81	33	73.3	381	4	US-10-156-761-11111
82	33	73.3	381	4	US-10-425-115-66945
83	33	73.3	388	4	US-10-425-115-300526
84	33	73.3	449	5	US-10-617-320-4132
85	33	73.3	454	5	US-10-282-122A-73800
86	33	73.3	454	5	US-10-472-928-668
87	33	73.3	1150	5	US-10-732-923-22717
88	33	73.3	1335	5	US-10-732-923-22719
89	33	73.3	1335	5	US-10-732-923-22719
90	33	73.3	1297	6	US-11-097-143-25221
91	33	73.3	1336	5	US-10-486-376-2
92	33	73.3	1360	5	US-10-732-923-22718
93	33	73.3	1428	6	US-11-097-143-37923
94	33	73.3	1863	3	US-10-282-122A-43976
95	33	73.3	2076	3	US-09-815-242-5815
96	33	73.3	2186	3	US-09-815-242-19913
97	33	73.3	2186	5	US-10-470-048B-336
98	33	73.3	3040	4	US-10-741-191-2
99	33	73.3	3040	4	US-10-742-350-2
100	32	71.1	138	4	US-10-425-115-242726

Sequence 480, App
Sequence 6, Appl
Sequence 6, Appl
Sequence 226, App
Sequence 226, App
Sequence 165, App
Sequence 1130, Ap
Sequence 1100, Ap
Sequence 20255, A
Sequence 20254, A
Sequence 20252, A
Sequence 20253, A
Sequence 10074, A
Sequence 69274, A
Sequence 67605, A
Sequence 117, App
Sequence 117, App
Sequence 6, Appl
Sequence 18, Appl
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304	31	68.9	254	3	US-09-880-748-1226	Sequence 1226, Ap	377	31	68.9	2164	4	US-10-305-331-66	Sequence 66, Appl1
305	31	68.9	254	3	US-10-293-418-1136	Sequence 1136, Ap	378	31	68.9	34	4	US-10-218-102-40	Sequence 40, Appl1
306	31	68.9	254	4	US-10-293-418-1165	Sequence 1165, Ap	379	31	68.9	34	4	US-10-218-102-40	Sequence 40, Appl1
307	31	68.9	254	4	US-10-293-418-1226	Sequence 1226, Ap	380	31	68.9	34	4	US-10-218-102-40	Sequence 40, Appl1
308	31	68.9	256	3	US-09-880-748-1150	Sequence 1150, Ap	381	31	68.9	34	4	US-10-218-102-40	Sequence 40, Appl1
309	31	68.9	256	3	US-09-880-748-1230	Sequence 1230, Ap	382	31	68.9	34	4	US-10-218-102-40	Sequence 40, Appl1
310	31	68.9	256	4	US-10-293-418-1150	Sequence 1150, Ap	383	31	68.9	34	4	US-10-218-102-40	Sequence 40, Appl1
311	31	68.9	256	4	US-10-293-418-1230	Sequence 1230, Ap	384	31	68.9	34	4	US-10-218-102-40	Sequence 40, Appl1
312	31	68.9	270	5	US-10-732-923-10053	Sequence 10053, A	385	31	68.9	385	30	US-10-424-599-217517	Sequence 217517, A
313	31	68.9	275	4	US-10-425-115-280686	Sequence 280686, A	386	31	68.9	385	30	US-10-424-599-209482	Sequence 209482, A
314	31	68.9	280	5	US-10-732-923-10075	Sequence 10075, A	387	31	68.9	388	30	US-10-424-599-209482	Sequence 209482, A
315	31	68.9	285	4	US-10-369-493-4665	Sequence 4665, Ap	388	31	68.9	388	30	US-10-424-599-209482	Sequence 209482, A
316	31	68.9	285	4	US-10-369-493-4665	Sequence 4665, Ap	389	31	68.9	388	30	US-10-424-599-209482	Sequence 209482, A
317	31	68.9	285	4	US-10-369-493-4665	Sequence 4665, Ap	390	31	68.9	388	30	US-10-424-599-209482	Sequence 209482, A
318	31	68.9	299	5	US-10-732-923-9993	Sequence 9993, Ap	391	31	68.9	390	30	US-10-424-599-209482	Sequence 209482, A
319	31	68.9	308	5	US-10-732-923-10095	Sequence 10095, A	392	31	68.9	392	30	US-10-424-599-209482	Sequence 209482, A

393	30	66.7	100	4	US-10-658-834A-295	Sequence 295, App	466	30	66.7	135	6	US-11-115-906-26	Sequence 26, Appl
394	30	66.7	100	4	US-10-658-834A-296	Sequence 296, App	467	30	66.7	136	4	US-10-116-273-8	Sequence 8, Appl
395	30	66.7	100	4	US-10-658-834A-297	Sequence 297, App	468	30	66.7	136	4	US-10-116-273-25	Sequence 25, Appl
396	30	66.7	100	4	US-10-658-834A-298	Sequence 298, App	469	30	66.7	136	4	US-10-195-707B-8	Sequence 8, Appl
397	30	66.7	100	4	US-10-658-834A-299	Sequence 299, App	470	30	66.7	136	4	US-10-195-707B-25	Sequence 25, Appl
398	30	66.7	100	4	US-10-658-834A-300	Sequence 300, App	471	30	66.7	136	6	US-11-115-906-8	Sequence 8, Appl
399	30	66.7	100	4	US-10-658-834A-301	Sequence 301, App	472	30	66.7	136	6	US-11-115-906-25	Sequence 25, Appl
400	30	66.7	100	4	US-10-658-834A-302	Sequence 302, App	473	30	66.7	137	4	US-10-116-273-7	Sequence 7, Appl
401	30	66.7	100	4	US-10-658-834A-303	Sequence 303, App	474	30	66.7	137	4	US-10-116-273-24	Sequence 24, Appl
402	30	66.7	100	4	US-10-658-834A-304	Sequence 304, App	475	30	66.7	137	4	US-10-195-707B-7	Sequence 7, Appl
403	30	66.7	100	4	US-10-658-834A-305	Sequence 305, App	476	30	66.7	137	4	US-10-195-707B-24	Sequence 24, Appl
404	30	66.7	100	4	US-10-658-834A-306	Sequence 306, App	477	30	66.7	137	6	US-11-115-906-7	Sequence 7, Appl
405	30	66.7	100	4	US-10-658-834A-307	Sequence 307, App	478	30	66.7	137	6	US-11-115-906-24	Sequence 24, Appl
406	30	66.7	100	4	US-10-658-834A-308	Sequence 308, App	479	30	66.7	138	4	US-10-116-273-6	Sequence 6, Appl
407	30	66.7	100	4	US-10-658-834A-309	Sequence 309, App	480	30	66.7	138	4	US-10-116-273-23	Sequence 23, Appl
408	30	66.7	100	4	US-10-658-834A-310	Sequence 310, App	481	30	66.7	138	4	US-10-195-707B-6	Sequence 6, Appl
409	30	66.7	100	4	US-10-658-834A-311	Sequence 311, App	482	30	66.7	138	4	US-10-195-707B-23	Sequence 23, Appl
410	30	66.7	108	4	US-10-424-599-173389	Sequence 173389,	483	30	66.7	138	6	US-11-115-906-23	Sequence 6, Appl
411	30	66.7	108	4	US-10-425-115-206489	Sequence 206489,	484	30	66.7	138	6	US-11-115-906-23	Sequence 23, Appl
412	30	66.7	110	4	US-10-282-1122A-60614	Sequence 60614, A	485	30	66.7	139	6	US-10-116-273-5	Sequence 5, Appl
413	30	66.7	114	4	US-10-424-599-278209	Sequence 278209,	486	30	66.7	139	4	US-10-116-273-22	Sequence 22, Appl
414	30	66.7	119	4	US-10-424-599-216799	Sequence 216799,	487	30	66.7	139	4	US-10-195-707B-5	Sequence 5, Appl
415	30	66.7	128	4	US-10-116-273-16	Sequence 16, Appl	488	30	66.7	139	4	US-10-195-707B-22	Sequence 22, Appl
416	30	66.7	128	4	US-10-116-273-33	Sequence 33, Appl	489	30	66.7	139	6	US-11-115-906-5	Sequence 5, Appl
417	30	66.7	128	4	US-10-195-707B-16	Sequence 16, Appl	490	30	66.7	139	6	US-11-115-906-22	Sequence 22, Appl
418	30	66.7	128	4	US-10-195-707B-33	Sequence 33, Appl	491	30	66.7	140	4	US-10-116-273-4	Sequence 4, Appl
419	30	66.7	128	5	US-10-732-923-5020	Sequence 5020, Ap	492	30	66.7	140	4	US-10-116-273-21	Sequence 21, Appl
420	30	66.7	128	6	US-11-115-906-16	Sequence 16, Appl	493	30	66.7	140	4	US-10-116-273-14	Sequence 14, Appl
421	30	66.7	128	6	US-11-115-906-33	Sequence 33, Appl	494	30	66.7	140	4	US-10-195-707B-4	Sequence 4, Appl
422	30	66.7	129	4	US-10-116-273-15	Sequence 15, Appl	495	30	66.7	140	4	US-10-195-707B-21	Sequence 21, Appl
423	30	66.7	129	4	US-10-116-273-32	Sequence 32, Appl	496	30	66.7	140	4	US-10-195-707B-34	Sequence 34, Appl
424	30	66.7	129	4	US-10-195-707B-15	Sequence 15, Appl	497	30	66.7	140	4	US-10-186-962-4	Sequence 4, Appl
425	30	66.7	129	6	US-10-195-707B-32	Sequence 32, Appl	498	30	66.7	140	6	US-11-115-906-4	Sequence 4, Appl
426	30	66.7	129	6	US-11-115-906-15	Sequence 15, Appl	499	30	66.7	140	6	US-11-115-906-21	Sequence 21, Appl
427	30	66.7	129	6	US-11-115-906-32	Sequence 32, Appl	500	30	66.7	140	6	US-11-115-906-34	Sequence 34, Appl
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429	30	66.7	130	4	US-10-116-273-31	Sequence 31, Appl	502	30	66.7	141	4	US-10-116-273-20	Sequence 20, Appl
430	30	66.7	130	4	US-10-195-707B-14	Sequence 14, Appl	503	30	66.7	141	4	US-10-195-707B-3	Sequence 3, Appl
431	30	66.7	130	4	US-10-195-707B-31	Sequence 31, Appl	504	30	66.7	141	4	US-10-195-707B-20	Sequence 20, Appl
432	30	66.7	130	6	US-11-115-906-14	Sequence 14, Appl	505	30	66.7	141	6	US-11-115-906-3	Sequence 3, Appl
433	30	66.7	131	6	US-11-115-906-31	Sequence 31, Appl	506	30	66.7	141	6	US-11-115-906-30	Sequence 30, Appl
434	30	66.7	131	4	US-10-116-273-13	Sequence 13, Appl	507	30	66.7	142	4	US-10-116-273-2	Sequence 2, Appl
435	30	66.7	131	4	US-10-116-273-30	Sequence 30, Appl	508	30	66.7	142	4	US-10-116-273-19	Sequence 19, Appl
436	30	66.7	131	4	US-10-195-707B-13	Sequence 13, Appl	509	30	66.7	142	4	US-10-195-707B-2	Sequence 2, Appl
437	30	66.7	131	6	US-10-195-707B-30	Sequence 30, Appl	510	30	66.7	142	4	US-10-195-707B-19	Sequence 19, Appl
438	30	66.7	131	6	US-11-115-906-13	Sequence 13, Appl	511	30	66.7	142	6	US-11-115-906-2	Sequence 2, Appl
439	30	66.7	131	6	US-11-115-906-30	Sequence 30, Appl	512	30	66.7	142	6	US-11-115-906-19	Sequence 19, Appl
440	30	66.7	132	4	US-10-116-273-12	Sequence 12, Appl	513	30	66.7	143	4	US-10-116-273-1	Sequence 1, Appl
441	30	66.7	132	4	US-10-116-273-29	Sequence 29, Appl	514	30	66.7	143	4	US-10-116-273-17	Sequence 17, Appl
442	30	66.7	132	4	US-10-195-707B-12	Sequence 12, Appl	515	30	66.7	143	4	US-10-195-707B-1	Sequence 1, Appl
443	30	66.7	132	4	US-10-195-707B-29	Sequence 29, Appl	516	30	66.7	143	4	US-10-195-707B-17	Sequence 17, Appl
444	30	66.7	132	5	US-10-732-923-4989	Sequence 4989, Ap	517	30	66.7	143	4	US-10-186-962-2	Sequence 2, Appl
445	30	66.7	132	6	US-11-115-906-12	Sequence 12, Appl	518	30	66.7	143	4	US-10-369-995-2	Sequence 2, Appl
446	30	66.7	132	6	US-11-115-906-29	Sequence 29, Appl	519	30	66.7	143	4	US-10-743-295-4	Sequence 4, Appl
447	30	66.7	133	4	US-10-116-273-11	Sequence 11, Appl	520	30	66.7	143	6	US-10-872-198-137	Sequence 137, App
448	30	66.7	133	4	US-10-116-273-28	Sequence 28, Appl	521	30	66.7	143	6	US-11-021-951-137	Sequence 137, App
449	30	66.7	133	4	US-10-195-707B-11	Sequence 11, Appl	522	30	66.7	143	6	US-11-115-906-1	Sequence 1, Appl
450	30	66.7	133	4	US-10-195-707B-28	Sequence 28, Appl	523	30	66.7	143	6	US-11-115-906-17	Sequence 17, Appl
451	30	66.7	133	6	US-11-115-906-11	Sequence 11, Appl	524	30	66.7	146	4	US-10-658-834A-199	Sequence 199, App
452	30	66.7	133	6	US-11-115-906-28	Sequence 28, Appl	525	30	66.7	148	4	US-10-282-122A-45542	Sequence 45542, A
453	30	66.7	134	4	US-10-116-273-10	Sequence 10, Appl	526	30	66.7	157	4	US-10-424-599-251455	Sequence 251455,
454	30	66.7	134	4	US-10-116-273-27	Sequence 27, Appl	527	30	66.7	166	3	US-09-881-050-30	Sequence 30, Appl
455	30	66.7	134	4	US-10-195-707B-10	Sequence 10, Appl	528	30	66.7	166	4	US-10-116-273-18	Sequence 18, Appl
456	30	66.7	134	4	US-10-195-707B-27	Sequence 27, Appl	529	30	66.7	166	4	US-10-195-707B-18	Sequence 18, Appl
457	30	66.7	134	4	US-10-282-122A-46151	Sequence 46151, A	530	30	66.7	166	4	US-10-186-962-3	Sequence 3, Appl
458	30	66.7	134	6	US-10-437-963-142142	Sequence 142142,	531	30	66.7	166	4	US-10-284-740-14	Sequence 14, Appl
459	30	66.7	134	6	US-11-115-906-10	Sequence 10, Appl	532	30	66.7	166	4	US-10-369-495-1	Sequence 1, Appl
460	30	66.7	134	6	US-11-115-906-27	Sequence 27, Appl	533	30	66.7	166	4	US-10-116-273-30	Sequence 30, App
461	30	66.7	135	4	US-10-116-273-9	Sequence 9, Appl	534	30	66.7	166	4	US-10-424-599-271864	Sequence 271864,
462	30	66.7	135	4	US-10-116-273-26	Sequence 26, Appl	535	30	66.7	166	4	US-10-411-037-20	Sequence 20, Appl
463	30	66.7	135	4	US-10-195-707B-9	Sequence 9, Appl	536	30	66.7	166	4	US-10-411-026-20	Sequence 20, Appl
464	30	66.7	135	4	US-10-195-707B-26	Sequence 26, Appl	537	30	66.7	166	4	US-10-410-962-20	Sequence 20, Appl
465	30	66.7	135	6	US-11-115-906-9	Sequence 9, Appl	538	30	66.7	166	4	US-10-411-049-20	Sequence 20, Appl

539	30	66.7	166	4	US-10-410-930-20	Sequence 20, Appl	612	30	66.7	262	4	US-10-425-114-63722	Sequence 63722, A
540	30	66.7	166	4	US-10-432-777-14	Sequence 14, Appl	613	30	66.7	262	4	US-10-425-114-63723	Sequence 63723, A
541	30	66.7	166	4	US-10-410-997-20	Sequence 20, Appl	614	30	66.7	264	4	US-10-425-114-62110	Sequence 62110, A
542	30	66.7	166	4	US-10-411-012-20	Sequence 20, Appl	615	30	66.7	264	4	US-10-425-114-63751	Sequence 63751, A
543	30	66.7	166	4	US-10-654-796-3	Sequence 3, Appl	616	30	66.7	267	4	US-10-451-4674-514	Sequence 514, App
544	30	66.7	166	4	US-10-654-796-3	Sequence 3, Appl	617	30	66.7	270	4	US-10-425-114-63750	Sequence 63750, A
545	30	66.7	166	4	US-10-287-994-20	Sequence 20, Appl	618	30	66.7	271	5	US-10-484-156-6	Sequence 6, Appl
546	30	66.7	166	4	US-10-410-913-20	Sequence 20, Appl	619	30	66.7	279	4	US-10-425-114-62098	Sequence 62098, A
547	30	66.7	166	5	US-10-733-878-279	Sequence 279, App	620	30	66.7	279	4	US-10-425-114-70775	Sequence 70775, A
548	30	66.7	166	5	US-10-276-642-2	Sequence 2, Appl	621	30	66.7	281	4	US-10-425-114-63752	Sequence 63754, A
549	30	66.7	166	5	US-10-370-715B-74	Sequence 74, Appl	622	30	66.7	282	4	US-10-425-114-63724	Sequence 63724, A
550	30	66.7	166	5	US-10-410-980-20	Sequence 20, Appl	623	30	66.7	282	4	US-10-425-114-63724	Sequence 62099, A
551	30	66.7	166	5	US-10-491-997-138	Sequence 138, App	624	30	66.7	283	4	US-10-425-114-62099	Sequence 1436, App
552	30	66.7	166	5	US-10-410-897-20	Sequence 20, Appl	625	30	66.7	291	5	US-10-946-647-1438	Sequence 77660, App
553	30	66.7	166	5	US-10-492-261-20	Sequence 20, Appl	626	30	66.7	294	5	US-10-282-122A-7350	Sequence 60946, A
554	30	66.7	166	5	US-10-601-072-279	Sequence 279, App	627	30	66.7	309	4	US-10-282-122A-60946	Sequence 11, Appl
555	30	66.7	166	6	US-11-115-906-18	Sequence 18, Appl	628	30	66.7	312	3	US-09-967-347-11	Sequence 5, Appl
556	30	66.7	167	4	US-10-205-534-8	Sequence 8, Appl	629	30	66.7	312	3	US-09-769-086-5	Sequence 6, Appl
557	30	66.7	171	4	US-10-205-534-8	Sequence 10, Appl	630	30	66.7	314	4	US-10-174-487-6	Sequence 3751, App
558	30	66.7	176	4	US-10-437-963-142143	Sequence 142143, Sequence 359408,	631	30	66.7	317	4	US-10-369-483-3751	Sequence 6, Appl
559	30	66.7	181	4	US-10-425-115-359408	Sequence 60, Appl	632	30	66.7	323	4	US-10-151-208-6	Sequence 18, Appl
560	30	66.7	181	6	US-11-000-473-60	Sequence 33, Appl	633	30	66.7	334	5	US-10-895-336-18	Sequence 118569, Sequence 288015,
561	30	66.7	182	4	US-10-346-863-33	Sequence 35, Appl	634	30	66.7	335	4	US-10-437-963-118569	Sequence 89, Appl
562	30	66.7	182	4	US-10-346-863-35	Sequence 36, Appl	635	30	66.7	337	4	US-10-260-897-68	Sequence 232695,
563	30	66.7	183	4	US-10-346-863-36	Sequence 53783, A	636	30	66.7	346	4	US-10-875-100-88	Sequence 50396, A
564	30	66.7	183	4	US-10-425-114-53783	Sequence 20, Appl	637	30	66.7	350	5	US-10-425-115-282635	Sequence 104935, A
565	30	66.7	183	4	US-10-346-863-20	Sequence 41, Appl	638	30	66.7	361	5	US-10-425-114-50495	Sequence 208576, Sequence 177823,
566	30	66.7	183	4	US-10-346-863-41	Sequence 7, Appl	639	30	66.7	362	5	US-10-425-114-50495	Sequence 10778, A
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568	30	66.7	184	3	US-10-425-115-260634	Sequence 4, Appl	641	30	66.7	387	4	US-10-739-930-10778	Sequence 45589, A
569	30	66.7	184	3	US-09-795-798-7	Sequence 7, Appl	642	30	66.7	390	5	US-10-282-122A-50765	Sequence 52850, A
570	30	66.7	184	3	US-09-795-798-8	Sequence 8, Appl	643	30	66.7	424	4	US-10-282-122A-52850	Sequence 208916, Sequence 189, App
571	30	66.7	184	3	US-09-795-798-8	Sequence 4, Appl	644	30	66.7	424	4	US-10-425-115-208916	Sequence 189, App
572	30	66.7	184	3	US-09-558-493-4	Sequence 4, Appl	645	30	66.7	424	4	US-10-128-714-8187	Sequence 60765, A
573	30	66.7	184	4	US-10-144-259-4	Sequence 7, Appl	646	30	66.7	424	4	US-10-128-714-8187	Sequence 45187, App
574	30	66.7	184	4	US-10-727-737-7	Sequence 8, Appl	647	30	66.7	424	4	US-10-282-122A-45589	Sequence 45589, A
575	30	66.7	184	5	US-10-473-127-2033	Sequence 2033, App	648	30	66.7	425	4	US-10-128-714-3187	Sequence 31875, App
576	30	66.7	184	5	US-10-346-863-56	Sequence 56, Appl	649	30	66.7	425	4	US-10-282-122A-50765	Sequence 52850, A
577	30	66.7	188	4	US-10-346-863-56	Sequence 1717, App	650	30	66.7	426	4	US-10-282-122A-52850	Sequence 208916, Sequence 189, App
578	30	66.7	189	4	US-10-094-749-1717	Sequence 5026, App	651	30	66.7	426	4	US-09-986-480-189	Sequence 189, App
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580	30	66.7	219	6	US-11-097-143-20448	Sequence 5021, App	653	30	66.7	431	3	US-10-863-333-189	Sequence 42501, A
581	30	66.7	225	3	US-09-815-242-5021	Sequence 10689, A	654	30	66.7	431	5	US-10-424-599-196801	Sequence 42501, A
582	30	66.7	225	3	US-09-815-242-10689	Sequence 267243, Sequence 64, Appl	655	30	66.7	436	4	US-10-282-122A-51557	Sequence 4502, App
583	30	66.7	226	4	US-10-424-599-267243	Sequence 147643, Sequence 5006, App	656	30	66.7	436	4	US-10-424-599-232561	Sequence 51557, A
584	30	66.7	242	5	US-10-873-332-64	Sequence 5004, App	657	30	66.7	437	4	US-10-732-923-6699	Sequence 6699, App
585	30	66.7	247	4	US-10-424-599-147643	Sequence 5007, App	658	30	66.7	437	4	US-10-732-923-6699	Sequence 20187, A
586	30	66.7	247	5	US-10-732-923-5006	Sequence 278212, Sequence 5005, App	659	30	66.7	451	5	US-10-282-122A-51557	Sequence 6699, App
587	30	66.7	247	5	US-10-732-923-5007	Sequence 5009, App	660	30	66.7	454	5	US-10-732-923-6699	Sequence 5559, App
588	30	66.7	248	4	US-10-424-599-278212	Sequence 4991, App	661	30	66.7	488	4	US-10-369-493-20187	Sequence 9369, App
589	30	66.7	248	5	US-10-732-923-5004	Sequence 5004, App	662	30	66.7	488	4	US-11-097-143-5559	Sequence 5369, App
590	30	66.7	248	5	US-10-732-923-5005	Sequence 147651, Sequence 5029, App	663	30	66.7	488	4	US-10-732-923-9369	Sequence 2, Appl
591	30	66.7	249	4	US-10-424-599-147651	Sequence 4993, App	664	30	66.7	546	3	US-09-991-496-2	Sequence 71, Appl
592	30	66.7	250	5	US-10-732-923-5003	Sequence 5029, App	665	30	66.7	546	3	US-10-098-732A-71	Sequence 68709, A
593	30	66.7	250	5	US-10-732-923-5003	Sequence 4991, App	666	30	66.7	546	4	US-10-282-122A-67079	Sequence 13417, A
594	30	66.7	253	5	US-10-732-923-4991	Sequence 5027, App	667	30	66.7	546	4	US-10-369-493-20187	Sequence 2, Appl
595	30	66.7	253	5	US-10-732-923-4993	Sequence 5028, App	668	30	66.7	589	6	US-11-062-290-2	Sequence 178331, Sequence 5866, App
596	30	66.7	253	5	US-10-732-923-5028	Sequence 4999, App	669	30	66.7	589	6	US-10-322-281-1172	Sequence 169, App
597	30	66.7	253	5	US-10-732-923-5028	Sequence 4995, App	670	30	66.7	589	6	US-10-322-281-1172	Sequence 18630, A
598	30	66.7	254	5	US-10-732-923-4999	Sequence 4996, App	671	30	66.7	592	4	US-10-437-963-1178331	Sequence 5487, A
599	30	66.7	255	5	US-10-732-923-4996	Sequence 5000, App	672	30	66.7	595	4	US-10-106-698-5866	Sequence 935, App
600	30	66.7	255	5	US-10-732-923-4996	Sequence 5001, App	673	30	66.7	600	4	US-10-369-493-1814	Sequence 52576, A
601	30	66.7	256	5	US-10-732-923-5001	Sequence 5002, App	674	30	66.7	603	4	US-10-369-493-1814	Sequence 18747, A
602	30	66.7	256	5	US-10-732-923-5002	Sequence 5003, App	675	30	66.7	629	4	US-11-097-143-33135	Sequence 28761, A
603	30	66.7	256	5	US-10-732-923-5030	Sequence 5004, App	676	30	66.7	629	4	US-11-097-143-33135	Sequence 28761, A
604	30	66.7	256	5	US-10-732-923-5030	Sequence 5005, App	677	30	66.7	629	4	US-11-097-143-33135	Sequence 28761, A
605	30	66.7	256	5	US-10-501-282-4198	Sequence 5013, App	678	30	66.7	629	4	US-11-097-143-33135	Sequence 28761, A
606	30	66.7	257	5	US-10-732-923-5013	Sequence 5015, App	679	30	66.7	629	4	US-11-097-143-33135	Sequence 28761, A
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611	30	66.7	262	4	US-10-425-114-63721	Sequence 63721, A	684	30	66.7	629	4	US-10-055-364-38	Sequence 38, Appl

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686	30	66.7	904	4	US-10-425-114-53515	Sequence 53515, A	759	29	64.4	85	5	US-10-617-320-2762	Sequence 2762, Ap
687	30	66.7	924	5	US-10-732-922-3176	Sequence 3176, Ap	760	29	64.4	89	3	US-09-430-029-4	Sequence 4, Appl1
688	30	66.7	926	3	US-09-991-496-128	Sequence 128, App	761	29	64.4	89	4	US-10-424-599-230768	Sequence 230768,
689	30	66.7	955	3	US-09-991-496-127	Sequence 127, App	762	29	64.4	91	4	US-10-424-599-775908	Sequence 775908,
690	30	66.7	982	3	US-09-874-923-95	Sequence 95, Appl	763	29	64.4	92	4	US-10-437-963-165863	Sequence 165863,
691	30	66.7	982	3	US-09-991-496-95	Sequence 95, Appl	764	29	64.4	94	4	US-10-437-963-183158	Sequence 183158,
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694	30	66.7	1019	3	US-09-776-191-64	Sequence 64, Appl	767	29	64.4	109	4	US-10-424-599-193650	Sequence 193650,
695	30	66.7	1019	4	US-10-157-031-267	Sequence 267, App	768	29	64.4	110	4	US-10-309-629-8	Sequence 8, Appl1
696	30	66.7	1019	4	US-10-156-214A-31	Sequence 31, Appl	769	29	64.4	116	4	US-10-424-599-260227	Sequence 260227,
697	30	66.7	1019	4	US-10-408-765A-2243	Sequence 2243, Ap	770	29	64.4	118	4	US-10-424-599-202708	Sequence 202708,
698	30	66.7	1019	4	US-10-729-807-37	Sequence 37, Appl	771	29	64.4	119	4	US-10-437-963-140158	Sequence 140158,
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701	30	66.7	1086	5	US-10-473-127-1741	Sequence 1741, Ap	774	29	64.4	137	4	US-10-437-963-152207	Sequence 152207,
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703	30	66.7	1145	5	US-10-473-127-1738	Sequence 1738, Ap	776	29	64.4	142	4	US-10-424-599-195572	Sequence 195572,
704	30	66.7	1145	5	US-10-872-198-130	Sequence 130, App	777	29	64.4	146	4	US-10-425-115-254389	Sequence 254389,
705	30	66.7	1145	6	US-11-021-951-130	Sequence 130, App	778	29	64.4	147	4	US-10-424-599-253182	Sequence 253182,
706	30	66.7	1158	5	US-10-756-149-5250	Sequence 5250, Ap	779	29	64.4	148	6	US-11-021-949-19	Sequence 19, Appl
707	30	66.7	1170	3	US-09-945-265-2	Sequence 2, Appl1	780	29	64.4	148	6	US-11-021-949-359	Sequence 359, App
708	30	66.7	1170	4	US-10-261-164-1	Sequence 1, Appl1	781	29	64.4	156	4	US-10-017-161-1384	Sequence 1384, Ap
709	30	66.7	1170	4	US-10-473-127-1737	Sequence 1737, Ap	782	29	64.4	156	4	US-10-292-798-1130	Sequence 1130, Ap
710	30	66.7	1170	5	US-10-473-127-1739	Sequence 1739, Ap	783	29	64.4	156	4	US-10-437-963-200909	Sequence 200909,
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712	30	66.7	1170	5	US-10-473-127-1743	Sequence 1743, Ap	785	29	64.4	158	4	US-10-424-599-154371	Sequence 154371,
713	30	66.7	1170	5	US-10-741-600-1088	Sequence 1088, Ap	786	29	64.4	158	4	US-10-424-599-154372	Sequence 154372,
714	30	66.7	1170	6	US-11-062-290-1	Sequence 1, Appl1	787	29	64.4	159	4	US-10-424-599-154376	Sequence 154376,
715	30	66.7	1170	6	US-11-000-473-42	Sequence 42, Appl	788	29	64.4	159	4	US-10-001-245-4	Sequence 4, Appl1
716	30	66.7	1201	4	US-10-282-122A-60698	Sequence 60698, A	789	29	64.4	159	4	US-10-001-245-9	Sequence 9, Appl1
717	30	66.7	1202	3	US-09-864-761-43061	Sequence 43061, A	790	29	64.4	159	4	US-10-440-516-47	Sequence 47, Appl
718	30	66.7	1223	4	US-10-408-765A-295	Sequence 295, App	791	29	64.4	160	4	US-10-001-245-17	Sequence 17, Appl
719	30	66.7	1223	5	US-10-473-127-1736	Sequence 1736, Ap	792	29	64.4	160	4	US-10-001-245-11	Sequence 11, Appl
720	30	66.7	1223	5	US-10-741-600-1083	Sequence 1086, Ap	793	29	64.4	160	4	US-10-001-245-12	Sequence 12, Appl
721	30	66.7	1235	4	US-10-369-493-1343	Sequence 1343, Ap	794	29	64.4	160	4	US-10-440-516-13	Sequence 13, Appl
722	30	66.7	1235	4	US-10-369-493-20406	Sequence 20406, A	795	29	64.4	160	4	US-10-440-516-14	Sequence 14, Appl
723	30	66.7	1235	5	US-10-734-563-86	Sequence 86, Appl	796	29	64.4	160	4	US-10-440-516-4	Sequence 4, Appl1
724	30	66.7	1270	5	US-10-450-763-36727	Sequence 36727, A	797	29	64.4	160	4	US-10-440-516-6	Sequence 6, Appl1
725	30	66.7	1427	3	US-09-874-923-97	Sequence 97, Appl	798	29	64.4	160	4	US-10-440-516-7	Sequence 7, Appl1
726	30	66.7	1427	3	US-09-991-496-97	Sequence 97, Appl	799	29	64.4	160	4	US-10-440-516-8	Sequence 8, Appl1
727	30	66.7	1471	4	US-10-259-194A-284	Sequence 284, App	800	29	64.4	160	4	US-10-440-516-9	Sequence 9, Appl1
728	30	66.7	1641	3	US-09-874-923-96	Sequence 96, Appl	801	29	64.4	160	4	US-10-440-516-10	Sequence 10, Appl
729	30	66.7	1641	3	US-09-991-496-96	Sequence 96, Appl	802	29	64.4	160	4	US-10-440-516-11	Sequence 11, Appl
730	30	66.7	2067	6	US-11-097-143-40167	Sequence 40167, A	803	29	64.4	160	4	US-10-440-516-12	Sequence 12, Appl
731	30	66.7	3450	4	US-10-369-493-5247	Sequence 5247, Ap	804	29	64.4	160	4	US-10-440-516-13	Sequence 13, Appl
732	30	66.7	3450	4	US-10-369-493-5249	Sequence 5249, Ap	805	29	64.4	160	4	US-10-440-516-14	Sequence 14, Appl
733	30	66.7	3461	4	US-10-369-493-5248	Sequence 5248, Ap	806	29	64.4	160	4	US-10-440-516-15	Sequence 15, Appl
734	30	66.7	3461	4	US-10-369-493-5250	Sequence 5250, Ap	807	29	64.4	160	4	US-10-440-516-16	Sequence 16, Appl
735	30	66.7	3586	4	US-10-334-143-77	Sequence 77, Appl	808	29	64.4	160	4	US-10-440-516-17	Sequence 17, Appl
736	30	66.7	4464	4	US-10-368-493-5019	Sequence 5019, Ap	809	29	64.4	160	4	US-10-440-516-18	Sequence 18, Appl
737	30	66.7	4464	4	US-10-368-493-5019	Sequence 5019, Ap	810	29	64.4	160	4	US-10-440-516-19	Sequence 19, Appl
738	29.5	65.6	179	3	US-09-738-626-5426	Sequence 5426, Ap	811	29	64.4	160	4	US-10-440-516-20	Sequence 20, Appl
739	29.5	65.6	203	3	US-10-767-701-59666	Sequence 59666, A	812	29	64.4	160	4	US-10-440-516-21	Sequence 21, Appl
740	29	64.4	9	5	US-10-751-845-141	Sequence 141, App	813	29	64.4	160	4	US-10-440-516-22	Sequence 22, Appl
741	29	64.4	13	5	US-10-497-091-17	Sequence 17, Appl	814	29	64.4	160	4	US-10-440-516-23	Sequence 23, Appl
742	29	64.4	13	5	US-10-497-091-19	Sequence 19, Appl	815	29	64.4	160	4	US-10-440-516-24	Sequence 24, Appl
743	29	64.4	15	5	US-10-193-460A-22	Sequence 22, Appl	816	29	64.4	160	4	US-10-440-516-25	Sequence 25, Appl
744	29	64.4	15	5	US-10-497-091-133	Sequence 133, App	817	29	64.4	160	4	US-10-440-516-26	Sequence 26, Appl
745	29	64.4	15	5	US-10-497-091-133	Sequence 133, App	818	29	64.4	160	4	US-10-440-516-27	Sequence 27, Appl
746	29	64.4	15	5	US-10-497-091-134	Sequence 134, App	819	29	64.4	160	4	US-10-440-516-28	Sequence 28, Appl
747	29	64.4	36	3	US-09-733-524-13	Sequence 13, App	820	29	64.4	160	4	US-10-440-516-29	Sequence 29, Appl
748	29	64.4	36	3	US-10-120-319-20	Sequence 20, Appl	821	29	64.4	160	4	US-10-440-516-30	Sequence 30, Appl
749	29	64.4	36	4	US-10-189-977-20	Sequence 20, Appl	822	29	64.4	160	4	US-10-440-516-31	Sequence 31, Appl
750	29	64.4	36	4	US-10-392-098-20	Sequence 20, Appl	823	29	64.4	160	4	US-10-440-516-32	Sequence 32, Appl
751	29	64.4	43	4	US-10-321-857-49	Sequence 49, Appl	824	29	64.4	160	4	US-10-440-516-33	Sequence 33, Appl
752	29	64.4	43	4	US-10-318-675-49	Sequence 49, Appl	825	29	64.4	160	4	US-10-440-516-34	Sequence 34, Appl
753	29	64.4	43	5	US-10-654-637-60	Sequence 60, Appl	826	29	64.4	160	4	US-10-440-516-35	Sequence 35, Appl
754	29	64.4	73	4	US-10-767-701-52982	Sequence 32982, A	827	29	64.4	160	4	US-10-440-516-36	Sequence 36, Appl
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756	29	64.4	78	4	US-10-437-963-140192	Sequence 140192, A	829	29	64.4	160	4	US-10-440-516-38	Sequence 38, Appl
757	29	64.4	79	4	US-10-424-599-189128	Sequence 189128, A	830	29	64.4	160	4	US-10-440-516-39	Sequence 39, Appl

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835	29	64.4	162	4	US-10-440-516-46	Sequence 46, Appl	908	29	64.4	415	5	US-10-275-580-2	Sequence 2, Appl
836	29	64.4	163	4	US-10-424-599-229851	Sequence 229851, Appl	909	29	64.4	415	5	US-10-675-982-7	Sequence 7, Appl
837	29	64.4	163	4	US-10-451-467A-712	Sequence 712, App	910	29	64.4	416	4	US-10-156-761-12568	Sequence 12568, A
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846	29	64.4	218	4	US-10-156-761-11239	Sequence 11239, A	919	29	64.4	490	4	US-10-288-122A-66127	Sequence 66127, Appl
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858	29	64.4	271	5	US-10-732-923-10114	Sequence 10114, A	933	29	64.4	547	3	US-09-943-857-10	Sequence 10, Appl
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869	29	64.4	305	4	US-10-282-122A-55386	Sequence 55386, A	945	29	64.4	577	3	US-09-815-242-10193	Sequence 13752, A
870	29	64.4	306	4	US-10-025-806-14	Sequence 14, Appl	946	29	64.4	577	4	US-10-283-122A-63109	Sequence 43109, A
871	29	64.4	313	5	US-10-732-923-9984	Sequence 9984, Ap	947	29	64.4	577	4	US-10-282-122A-7518	Sequence 75128, A
872	29	64.4	314	5	US-10-732-923-10048	Sequence 10048, A	948	29	64.4	578	4	US-10-282-122A-75914	Sequence 75914, A
873	29	64.4	314	5	US-10-732-923-10049	Sequence 10049, A	949	29	64.4	578	4	US-10-706-229-11	Sequence 11, Appl
874	29	64.4	315	5	US-10-732-923-10055	Sequence 10055, A	951	29	64.4	584	4	US-10-156-761-11786	Sequence 11786, A
875	29	64.4	315	5	US-10-732-923-10087	Sequence 10087, A	952	29	64.4	588	4	US-10-425-114-65224	Sequence 65224, A
876	29	64.4	318	5	US-10-732-923-10080	Sequence 10080, A	953	29	64.4	605	4	US-10-369-493-18398	Sequence 18398, A
877	29	64.4	319	4	US-10-437-963-138555	Sequence 138555, Appl	954	29	64.4	610	3	US-09-891-332A-10	Sequence 4, Appl
878	29	64.4	319	4	US-10-732-923-10093	Sequence 10093, A	955	29	64.4	610	4	US-09-891-332A-10	Sequence 10, Appl
879	29	64.4	319	5	US-10-732-923-10094	Sequence 10094, A	956	29	64.4	610	4	US-10-706-229-8	Sequence 8, Appl
880	29	64.4	319	5	US-10-732-923-10100	Sequence 10100, A	957	29	64.4	610	4	US-10-706-229-16	Sequence 16, Appl
881	29	64.4	320	5	US-10-732-923-10081	Sequence 10081, A	958	29	64.4	610	4	US-10-706-229-23	Sequence 23, Appl
882	29	64.4	320	5	US-10-732-923-10101	Sequence 10101, A	959	29	64.4	610	4	US-10-706-229-26	Sequence 26, Appl
883	29	64.4	327	4	US-10-416-314-33	Sequence 33, Appl	960	29	64.4	610	4	US-10-706-229-33	Sequence 33, Appl
884	29	64.4	328	4	US-10-282-122A-63979	Sequence 63979, A	961	29	64.4	610	4	US-10-706-229-35	Sequence 35, Appl
885	29	64.4	328	4	US-10-468-333-2	Sequence 2, Appl	962	29	64.4	610	4	US-10-706-229-35	Sequence 35, Appl
886	29	64.4	328	5	US-10-495-148-8	Sequence 8, Appl	963	29	64.4	610	4	US-10-706-229-35	Sequence 35, Appl
887	29	64.4	328	5	US-10-732-923-18122	Sequence 18122, A	964	29	64.4	610	4	US-10-706-229-35	Sequence 35, Appl
888	29	64.4	329	4	US-10-369-493-11102	Sequence 11102, A	965	29	64.4	610	4	US-10-706-229-35	Sequence 35, Appl
889	29	64.4	329	5	US-10-866-259-9	Sequence 9, Appl	966	29	64.4	610	4	US-10-820-155-9	Sequence 9, Appl
890	29	64.4	330	5	US-10-866-259-9	Sequence 22481, A	967	29	64.4	610	4	US-10-425-114-71796	Sequence 71796, A
891	29	64.4	334	5	US-10-972-963-183	Sequence 183, App	968	29	64.4	624	4	US-10-369-493-19982	Sequence 19982, A
892	29	64.4	346	4	US-10-282-122A-77584	Sequence 77584, A	969	29	64.4	624	4	US-10-437-963-149117	Sequence 149117, A
893	29	64.4	353	5	US-10-156-761-9969	Sequence 9969, Ap	970	29	64.4	628	4	US-10-437-963-150082	Sequence 150082, A
894	29	64.4	353	5	US-10-732-923-18121	Sequence 18121, A	971	29	64.4	634	4	US-10-437-963-151282	Sequence 151282, A
895	29	64.4	360	6	US-11-097-143-17262	Sequence 17262, A	972	29	64.4	640	4	US-10-323-167-13	Sequence 13, Appl
896	29	64.4	363	4	US-10-282-122A-67522	Sequence 67522, A	973	29	64.4	645	4	US-10-994-726-228	Sequence 238, App
897	29	64.4	365	4	US-10-187-536-4	Sequence 201266, Appl	974	29	64.4	649	5	US-10-994-726-227	Sequence 178159, A
898	29	64.4	368	4	US-10-424-599-201266	Sequence 78, Appl	975	29	64.4	659	5	US-10-994-726-237	Sequence 237, App
899	29	64.4	380	4	US-10-342-224-78	Sequence 281268, Appl	976	29	64.4	677	3	US-09-891-332A-3	Sequence 3, Appl
900	29	64.4	390	5	US-10-424-599-281268	Sequence 13, Appl	977	29	64.4	678	6	US-11-097-143-18357	Sequence 18357, A
901	29	64.4	390	5	US-10-497-091-13	Sequence 138404, Appl							
902	29	64.4	390	5	US-10-497-091-13								
903	29	64.4	391	4	US-10-437-963-138404								

977 29 64.4 686 4 US-10-476-899-3 Sequence 3, Appl1  
978 29 64.4 697 4 US-10-425-115-256498 Sequence 256498,  
979 29 64.4 708 3 US-09-891-332A-5 Sequence 5, Appl1  
980 29 64.4 709 5 US-10-450-763-55874 Sequence 59874, A  
981 29 64.4 726 4 US-10-425-114-55068 Sequence 59068, A  
982 29 64.4 742 4 US-10-203-860-2 Sequence 2, Appl1  
983 29 64.4 742 4 US-10-203-860-2 Sequence 4, Appl1  
984 29 64.4 742 4 US-10-308-448-11 Sequence 11, Appl1  
985 29 64.4 742 4 US-10-341-434-85 Sequence 85, Appl1  
986 29 64.4 742 4 US-10-282-122A-53523 Sequence 53523, A  
987 29 64.4 742 5 US-10-820-155-2 Sequence 2, Appl1  
988 29 64.4 742 5 US-10-820-155-6 Sequence 6, Appl1  
989 29 64.4 742 5 US-10-820-155-8 Sequence 8, Appl1  
990 29 64.4 742 5 US-10-820-155-10 Sequence 10, Appl1  
991 29 64.4 742 5 US-10-820-155-17 Sequence 17, Appl1  
992 29 64.4 769 6 US-11-097-143-9501 Sequence 9501, Ap  
993 29 64.4 776 4 US-10-282-122A-60245 Sequence 60245, A  
994 29 64.4 777 6 US-11-097-143-6930 Sequence 6930, Ap  
995 29 64.4 785 4 US-10-264-049-2968 Sequence 2968, Ap  
996 29 64.4 819 4 US-10-303-683-18 Sequence 18, Appl  
997 29 64.4 820 4 US-10-303-683-18 Sequence 19, Appl  
998 29 64.4 830 4 US-10-437-963-158121 Sequence 158121,  
999 29 64.4 832 4 US-10-282-122A-51394 Sequence 51394, A  
1000 29 64.4 840 4 US-10-437-963-198124 Sequence 198124,

## ALIGNMENTS

RESULT 1  
US-10-751-845-153  
; Sequence 153, Application US/10751845  
; Publication No. US20050100928A1  
; GENERAL INFORMATION:  
; APPLICANT: Hedley, Mary Lynne  
; APPLICANT: Urban, Robert G.  
; APPLICANT: Chicz, Roman M.  
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES  
; FILE REFERENCE: 08191-013001  
; CURRENT APPLICATION NUMBER: US/10/751,845  
; CURRENT FILING DATE: 2004-01-05  
; PRIOR APPLICATION NUMBER: US/09/664,225  
; PRIOR FILING DATE: 2000-08-18  
; PRIOR APPLICATION NUMBER: US 60/169,846  
; PRIOR FILING DATE: 1999-12-09  
; PRIOR APPLICATION NUMBER: US 60/154,665  
; PRIOR FILING DATE: 1999-09-16  
; NUMBER OF SEQ ID NOS: 163  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 153  
; LENGTH: 27  
; TYPE: PRT  
; ORGANISM: Human Papilloma virus  
US-10-751-845-153  
Query Match 100.0%; Score 45; DB 5; Length 27;  
Best Local Similarity 100.0%; Pred. No. 0.12; Indels 0; Gaps 0;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 DTLEKLTNT 9  
Db 5 DTLEKLTNT 13  
RESULT 2  
US-10-751-845-159  
; Sequence 159, Application US/10751845  
; Publication No. US20050100928A1  
; GENERAL INFORMATION:  
; APPLICANT: Hedley, Mary Lynne  
; APPLICANT: Urban, Robert G.  
; APPLICANT: Chicz, Roman M.  
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES

FILE REFERENCE: 08191-013001  
; CURRENT APPLICATION NUMBER: US/10/751,845  
; CURRENT FILING DATE: 2004-01-05  
; PRIOR APPLICATION NUMBER: US/09/664,225  
; PRIOR FILING DATE: 2000-08-18  
; PRIOR APPLICATION NUMBER: US 60/169,846  
; PRIOR FILING DATE: 1999-12-09  
; PRIOR APPLICATION NUMBER: US 60/154,665  
; PRIOR FILING DATE: 1999-09-16  
; NUMBER OF SEQ ID NOS: 163  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 159  
; LENGTH: 119  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Artificial fusion sequence  
US-10-751-845-159  
Query Match 100.0%; Score 45; DB 5; Length 119;  
Best Local Similarity 100.0%; Pred. No. 0.61; Indels 0; Gaps 0;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 DTLEKLTNT 9  
Db 47 DTLEKLTNT 55  
RESULT 3  
US-10-800-023-27  
; Sequence 27, Application US/10800023  
; Publication No. US2004040258688A1  
; GENERAL INFORMATION:  
; APPLICANT: Steinman, Ralph  
; APPLICANT: Nussenzweig, Michel  
; APPLICANT: Hawiger, Daniel  
; APPLICANT: Bonifaz, Laura  
; TITLE OF INVENTION: Enhanced Antigen Delivery and Modulation  
; FILE REFERENCE: 600-1-081CONCIP1  
; CURRENT APPLICATION NUMBER: US/10/800,023  
; CURRENT FILING DATE: 2004-03-14  
; PRIOR APPLICATION NUMBER: 09/925,284  
; PRIOR FILING DATE: 2001-08-09  
; PRIOR APPLICATION NUMBER: 09/586,704  
; PRIOR FILING DATE: 2000-06-05  
; PRIOR APPLICATION NUMBER: PCT/US96/01383  
; PRIOR FILING DATE: 1996-01-31  
; PRIOR APPLICATION NUMBER: 08/381,528  
; PRIOR FILING DATE: 1995-01-31  
; NUMBER OF SEQ ID NOS: 37  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 27  
; LENGTH: 158  
; TYPE: PRT  
; ORGANISM: human papilloma virus E6 protein  
US-10-800-023-27  
Query Match 100.0%; Score 45; DB 5; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.85; Indels 0; Gaps 0;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 DTLEKLTNT 9  
Db 88 DTLEKLTNT 96  
RESULT 4  
US-11-021-949-28  
; Sequence 28, Application US/11021949  
; Publication No. US20050142541A1  
; GENERAL INFORMATION:  
; APPLICANT: LU, PETER

```
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SAMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 28
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-28
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Query Match 100.0%; Score 45; DB 6; Length 158;

Best Local Similarity 100.0%; Pred. No. 0.85;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 1 DTLEKLTNT 9
   |||||
Db 88 DTLEKLTNT 96
```

## RESULT 5

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US-10-472-724-6
; Sequence 6, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Cid-Arregui, Angel
; APPLICANT: Zur Hausen, Harald
; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 6
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-6
```

Query Match 100.0%; Score 45; DB 4; Length 172;

Best Local Similarity 100.0%; Pred. No. 0.93;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 1 DTLEKLTNT 9
   |||||
Db 94 DTLEKLTNT 102
```

## RESULT 6

```
US-10-751-845-157
; Sequence 157, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chiciz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
```

```
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 157
; LENGTH: 236
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-157
```

Query Match 100.0%; Score 45; DB 5; Length 236;

Best Local Similarity 100.0%; Pred. No. 1.3;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 1 DTLEKLTNT 9
   |||||
Db 164 DTLEKLTNT 172
```

## RESULT 7

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US-10-751-845-158
; Sequence 158, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 158
; LENGTH: 237
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-158
```

Query Match 100.0%; Score 45; DB 5; Length 237;

Best Local Similarity 100.0%; Pred. No. 1.3;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 1 DTLEKLTNT 9
   |||||
Db 165 DTLEKLTNT 173
```

## RESULT 8

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US-10-751-845-160
; Sequence 160, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chiciz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
```

CURRENT APPLICATION NUMBER: US/10/751,845  
; CURRENT FILING DATE: 2004-01-05  
; PRIOR APPLICATION NUMBER: US/09/664,225  
; PRIOR FILING DATE: 2000-08-18  
; PRIOR APPLICATION NUMBER: US 60/169,846  
; PRIOR FILING DATE: 1999-12-09  
; PRIOR APPLICATION NUMBER: US 60/154,665  
; PRIOR FILING DATE: 1999-09-16  
; NUMBER OF SEQ ID NOS: 163  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO: 160  
; LENGTH: 261  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Artificial fusion sequence  
US-10-751-845-160

Query Match 100.0%; Score 45; DB 5; Length 261;  
Best Local Similarity 100.0%; Pred. No. 1.5;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DTLEKLTNT 9  
|||  
Db 189 DTLEKLTNT 197

RESULT 9  
US-10-000-903-21  
; Sequence 21, Application US/10000903  
; Publication No. US20020182221A1  
; GENERAL INFORMATION:  
; APPLICANT: Bruck, Claudine  
; APPLICANT: Cabezon Silva, Teresa  
; APPLICANT: Delisse, Anne-Marie Eva Fernande  
; APPLICANT: Gerard, Catherine Marie Ghislaine  
; APPLICANT: Lombardo-Bencheikh, Angela  
; TITLE OF INVENTION: Vaccine  
; FILE REFERENCE: B45107  
; CURRENT APPLICATION NUMBER: US/10/000,903  
; CURRENT FILING DATE: 2001-10-01  
; PRIOR APPLICATION NUMBER: PCT/EP98/05285  
; PRIOR FILING DATE: 1998-08-17  
; PRIOR APPLICATION NUMBER: GB 9717953.5  
; PRIOR FILING DATE: 1997-08-22  
; NUMBER OF SEQ ID NOS: 23  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO: 21  
; LENGTH: 278  
; TYPE: PRT  
; ORGANISM: Homo sapien  
US-10-000-903-21

Query Match 100.0%; Score 45; DB 4; Length 278;  
Best Local Similarity 100.0%; Pred. No. 1.6;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DTLEKLTNT 9  
|||  
Db 199 DTLEKLTNT 207

RESULT 10  
US-10-899-771-21  
; Sequence 21, Application US/10899771  
; Publication No. US20050031638A1  
; GENERAL INFORMATION:  
; APPLICANT: Dalemans, Wilfried L.J.  
; APPLICANT: Gerard, Catherine Marie Ghislaine  
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins  
; FILE REFERENCE: B45124  
; CURRENT APPLICATION NUMBER: US/10/899,771

CURRENT FILING DATE: 2004-07-27  
; PRIOR APPLICATION NUMBER: US/09/581,976  
; PRIOR FILING DATE: 2000-06-20  
; PRIOR APPLICATION NUMBER: PCT/EP98/08563  
; PRIOR FILING DATE: 1998-12-18  
; PRIOR APPLICATION NUMBER: GB 9727262.9  
; PRIOR FILING DATE: 1997-12-24  
; NUMBER OF SEQ ID NOS: 28  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO: 21  
; LENGTH: 278  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Chimaeic protein (protein D from Haemophilus  
; OTHER INFORMATION: Influenzae B and E6 from Human papilloma virus type  
; OTHER INFORMATION: 18)  
US-10-899-771-21

Query Match 100.0%; Score 45; DB 5; Length 278;  
Best Local Similarity 100.0%; Pred. No. 1.6;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DTLEKLTNT 9  
|||  
Db 199 DTLEKLTNT 207

RESULT 11  
US-10-000-903-23  
; Sequence 23, Application US/10000903  
; Publication No. US20020182221A1  
; GENERAL INFORMATION:  
; APPLICANT: Bruck, Claudine  
; APPLICANT: Cabezon Silva, Teresa  
; APPLICANT: Delisse, Anne-Marie Eva Fernande  
; APPLICANT: Gerard, Catherine Marie Ghislaine  
; APPLICANT: Lombardo-Bencheikh, Angela  
; TITLE OF INVENTION: Vaccine  
; FILE REFERENCE: B45107  
; CURRENT APPLICATION NUMBER: US/10/000,903  
; CURRENT FILING DATE: 2001-10-01  
; PRIOR APPLICATION NUMBER: PCT/EP98/05285  
; PRIOR FILING DATE: 1998-08-17  
; PRIOR APPLICATION NUMBER: GB 9717953.5  
; PRIOR FILING DATE: 1997-08-22  
; NUMBER OF SEQ ID NOS: 23  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO: 23  
; LENGTH: 383  
; TYPE: PRT  
; ORGANISM: Homo sapien  
US-10-000-903-23

Query Match 100.0%; Score 45; DB 4; Length 383;  
Best Local Similarity 100.0%; Pred. No. 2.3;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DTLEKLTNT 9  
|||  
Db 199 DTLEKLTNT 207

RESULT 12  
US-10-899-771-23  
; Sequence 23, Application US/10899771  
; Publication No. US20050031638A1  
; GENERAL INFORMATION:  
; APPLICANT: Dalemans, Wilfried L.J.  
; APPLICANT: Gerard, Catherine Marie Ghislaine  
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins  
; FILE REFERENCE: B45124  
; CURRENT APPLICATION NUMBER: US/10/899,771



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/ CURRENT APPLICATION NUMBER: US/10/899,771
/ CURRENT FILING DATE: 2004-07-27
/ PRIOR APPLICATION NUMBER: US/09/581,976
/ PRIOR FILING DATE: 2000-06-20
/ PRIOR APPLICATION NUMBER: PCT/EP98/08563
/ PRIOR FILING DATE: 1998-12-18
/ PRIOR APPLICATION NUMBER: GB 9727262.9
/ PRIOR FILING DATE: 1997-12-24
/ NUMBER OF SEQ ID NOS: 28
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 23
/ LENGTH: 383
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
/ OTHER INFORMATION: influenzae B and B6E7 fusion from Human papilloma
/ OTHER INFORMATION: virus type 18)
/ US-10-899-771-23
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```
Query Match          100.0%; Score 45; DB 5; Length 383;
Best Local Similarity 100.0%; Pred. No. 2.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Oy 1 DTLEKLTNT 9
    |||||
Db 199 DTLEKLTNT 207
```

```
RESULT 13
/ US-11-021-949-29
/ Sequence 29, Application US/11021949
/ Publication No. US20050142541A1
/ GENERAL INFORMATION:
/ APPLICANT: LU, PETER
/ APPLICANT: GARMAN, JONATHAN DAVID
/ APPLICANT: BELMARES, MICHAEL P.
/ APPLICANT: DIAZ-SARMIENTO, CHAMORRO SONOZA
/ APPLICANT: SCHWEIZER, JOHANNES
/ TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
/ TITLE OF INVENTION: AND METHODS OF THEIR USE
/ FILE REFERENCE: VITA-012
/ CURRENT APPLICATION NUMBER: US/11/021,949
/ CURRENT FILING DATE: 2004-12-23
/ PRIOR APPLICATION NUMBER: 60/532,373
/ PRIOR FILING DATE: 2003-12-23
/ NUMBER OF SEQ ID NOS: 361
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 29
/ LENGTH: 158
/ TYPE: PRT
/ ORGANISM: human papilloma virus (HPV)
/ US-11-021-949-29

Query Match          86.7%; Score 39; DB 6; Length 158;
Best Local Similarity 77.8%; Pred. No. 13;
Matches 7; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Oy 1 DTLEKLTNT 9
    |||||
Db 88 ETLLEKLTNT 96

RESULT 14
/ US-10-739-930-6845
/ Sequence 6845, Application US/10739930
/ Publication No. US20040216190A1
/ GENERAL INFORMATION:
/ APPLICANT: Kovalic, David K.
/ TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
/ TITLE OF INVENTION: PLANTS AND USES THEREOF FOR PLANT IMPROVEMENT
/ FILE REFERENCE: 38-21(53377)B
/ CURRENT APPLICATION NUMBER: US/10/739,930
```

```
/ CURRENT FILING DATE: 2003-12-18
/ NUMBER OF SEQ ID NOS: 11088
/ SEQ ID NO 6845
/ LENGTH: 181
/ TYPE: PRT
/ ORGANISM: Brassica napus
/ FEATURE:
/ OTHER INFORMATION: Clone ID: BRANA-23APR03-C11583_1.p
/ US-10-739-930-6845
```

```
Query Match          80.0%; Score 36; DB 5; Length 181;
Best Local Similarity 77.8%; Pred. No. 58;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
Oy 1 DTLEKLTNT 9
    |||||
Db 81 DTLEKLVNS 89
```

```
RESULT 15
/ US-11-097-143-22866
/ Sequence 22866, Application US/11097143
/ Publication No. US20050208558A1
/ GENERAL INFORMATION:
/ APPLICANT: Venter, J. Craig
/ APPLICANT: et al.
/ TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
/ TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
/ FILE REFERENCE: CLO00728
/ CURRENT APPLICATION NUMBER: US/11/097,143
/ CURRENT FILING DATE: 2005-04-04
/ PRIOR APPLICATION NUMBER: 60/157,832
/ PRIOR FILING DATE: 1999-10-05
/ PRIOR APPLICATION NUMBER: 60/160,191
/ PRIOR FILING DATE: 1999-10-19
/ PRIOR APPLICATION NUMBER: 60/161,932
/ PRIOR FILING DATE: 1999-10-28
/ PRIOR APPLICATION NUMBER: 60/164,769
/ PRIOR FILING DATE: 1999-11-12
/ PRIOR APPLICATION NUMBER: 60/173,383
/ PRIOR FILING DATE: 1999-12-28
/ PRIOR APPLICATION NUMBER: 60/175,693
/ PRIOR FILING DATE: 2000-01-12
/ PRIOR APPLICATION NUMBER: 60/184,831
/ PRIOR FILING DATE: 2000-02-24
/ PRIOR APPLICATION NUMBER: 60/191,637
/ PRIOR FILING DATE: 2000-03-23
/ NUMBER OF SEQ ID NOS: 43008
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 22866
/ LENGTH: 1087
/ TYPE: PRT
/ ORGANISM: DROSOPHILA
/ US-11-097-143-22866

Query Match          80.0%; Score 36; DB 6; Length 1087;
Best Local Similarity 87.5%; Pred. No. 4.3e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Oy 1 DTLEKLTN 8
    |||||
Db 504 DTLEKLSN 511

RESULT 16
/ US-11-097-143-22869
/ Sequence 22869, Application US/11097143
/ Publication No. US20050208558A1
/ GENERAL INFORMATION:
/ APPLICANT: Venter, J. Craig
/ APPLICANT: et al.
/ TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
```

```
;; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
;;
;; FILE REFERENCE: CLO00728
;; CURRENT APPLICATION NUMBER: US/11/097,143
;; CURRENT FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: 60/157,832
;; PRIOR FILING DATE: 1999-10-05
;; PRIOR APPLICATION NUMBER: 60/160,191
;; PRIOR FILING DATE: 1999-10-19
;; PRIOR APPLICATION NUMBER: 60/161,932
;; PRIOR FILING DATE: 1999-10-28
;; PRIOR APPLICATION NUMBER: 60/164,769
;; PRIOR FILING DATE: 1999-11-12
;; PRIOR APPLICATION NUMBER: 60/173,383
;; PRIOR FILING DATE: 1999-12-28
;; PRIOR APPLICATION NUMBER: 60/175,693
;; PRIOR FILING DATE: 2000-01-12
;; PRIOR APPLICATION NUMBER: 60/184,831
;; PRIOR FILING DATE: 2000-02-24
;; PRIOR APPLICATION NUMBER: 60/191,637
;; PRIOR FILING DATE: 2000-03-23
;; NUMBER OF SEQ ID NOS: 43008
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 22869
;; LENGTH: 1087
;; TYPE: PRT
;; ORGANISM: DROSOPHILA
US-11-097-143-22869
```

```
Query Match      80.0%; Score 36; DB 6; Length 1087;
Best Local Similarity 87.5%; Pred. No. 4.3e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 DTLEKLTNT 8
      :|||||:
Db      504 DTLEKLSN 511
```

```
RESULT 17
US-09-824-787B-2
; Sequence 2, Application US/09824787B
; Patent No. US20020155447A1
; GENERAL INFORMATION:
; APPLICANT: Zauderer, Maurice
; APPLICANT: Evans, Elizabeth E.
; APPLICANT: Botrello, Melinda A.
; TITLE OF INVENTION: A Gene Differentially Expressed in Breast and
; FILE REFERENCE: 1821.0040001
; CURRENT APPLICATION NUMBER: US/09/824,787B
; CURRENT FILING DATE: 2001-04-04
; PRIOR APPLICATION NUMBER: 60/194,463
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 147
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 115
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-824-787B-2
```

```
Query Match      77.8%; Score 35; DB 3; Length 115;
Best Local Similarity 66.7%; Pred. No. 54;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 DTLEKLTNT 9
      :|||||:
Db      100 ETLKLTNS 108
```

```
RESULT 18
US-10-435-696-93
; Sequence 93, Application US/10435696
```

```
;; Publication No. US20040018525A1
;; GENERAL INFORMATION:
;; APPLICANT: Wirtz, Ralph
;; APPLICANT: Munnes, Marc
;; APPLICANT: Kallabis, Harald
;; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE PREDICTION, DIAGNOSIS, PROGNOSIS
;; FILE REFERENCE: 1821.0040001
;; CURRENT APPLICATION NUMBER: US/10/435,696
;; CURRENT FILING DATE: 2003-05-09
;; PRIOR APPLICATION NUMBER: EP03003112.4
;; PRIOR FILING DATE: 2003-02-13
;; PRIOR APPLICATION NUMBER: EP02010291.9
;; PRIOR FILING DATE: 2002-05-21
;; NUMBER OF SEQ ID NOS: 314
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 93
;; LENGTH: 115
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-10-435-696-93
```

```
Query Match      77.8%; Score 35; DB 4; Length 115;
Best Local Similarity 66.7%; Pred. No. 54;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 DTLEKLTNT 9
      :|||||:
Db      100 ETLKLTNS 108
```

```
RESULT 19
US-10-457-829-2
; Sequence 2, Application US/10457829
; Publication No. US20040063907A1
; GENERAL INFORMATION:
; APPLICANT: Zauderer, Maurice
; APPLICANT: Evans, Elizabeth E.
; APPLICANT: Botrello, Melinda A.
; TITLE OF INVENTION: A Gene Differentially Expressed in Breast and
; FILE REFERENCE: 1821.0040005
; CURRENT APPLICATION NUMBER: US/10/457,829
; CURRENT FILING DATE: 2003-06-10
; PRIOR APPLICATION NUMBER: US 60/464,650
; PRIOR FILING DATE: 2003-04-23
; NUMBER OF SEQ ID NOS: 160
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 115
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-457-829-2
```

```
Query Match      77.8%; Score 35; DB 4; Length 115;
Best Local Similarity 66.7%; Pred. No. 54;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 DTLEKLTNT 9
      :|||||:
Db      100 ETLKLTNS 108
```

```
RESULT 20
US-10-887-230-2
; Sequence 2, Application US/10887230
; Publication No. US20050042218A1
; GENERAL INFORMATION:
; APPLICANT: Zauderer, Maurice
; APPLICANT: B2-Microglobulin
; TITLE OF INVENTION: MHC Class I - Peptide-Antibody Conjugates with Modified
; FILE REFERENCE: 1843.0160002
; CURRENT APPLICATION NUMBER: US/10/887,230
```

```
; CURRENT FILING DATE: 2004-07-09
; PRIOR APPLICATION NUMBER: US 60/485,716
; PRIOR FILING DATE: 2003-7-10
; PRIOR APPLICATION NUMBER: US 60/513,043
; PRIOR FILING DATE: 2003-10-22
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 115
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-887-230-2
```

```
Query Match          77.8%; Score 35; DB 5; Length 115;
Best Local Similarity 66.7%; Pred. No. 54;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 DTLEKLTNT 9
        :|||||:
Db       100 ETLKLTNS 108
```

```
RESULT 21
US-10-855-588-86
; Sequence 86, Application US/10855588
; Publication No. US20050042642A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Monahan, John
; APPLICANT: Hoersch, Sebastien
; APPLICANT: Anderson, Dustin
; APPLICANT: Endege, Wilson
; APPLICANT: Ford, Donna
; APPLICANT: Glatz, Karen
; APPLICANT: Gorbatcheva, Bella
; APPLICANT: Kamatkar, Shubhangi
; APPLICANT: Xu, Yong Yao
; APPLICANT: Gannavazapu, Manjula
; APPLICANT: Zhao, Xumei
; APPLICANT: Robert Schlegel
; APPLICANT: Maureen Mertens
; TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF
; FILE REFERENCE: MRI-064
; CURRENT APPLICATION NUMBER: US/10/855,588
; CURRENT FILING DATE: 2004-05-26
; PRIOR APPLICATION NUMBER: 60/474,281
; PRIOR FILING DATE: 2003-05-29
; PRIOR APPLICATION NUMBER: 60/555,557
; PRIOR FILING DATE: 2004-03-24
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatSeq for Windows Version 4.0
; SEQ ID NO 86
; LENGTH: 115
; TYPE: PRT
; ORGANISM: human
US-10-855-588-86
```

```
Query Match          77.8%; Score 35; DB 5; Length 115;
Best Local Similarity 66.7%; Pred. No. 54;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 DTLEKLTNT 9
        :|||||:
Db       100 ETLKLTNS 108
```

```
RESULT 22
US-11-003-819-2
; Sequence 2, Application US/11003819
; Publication No. US20050158323A1
; GENERAL INFORMATION:
; APPLICANT: Evans, Elizabeth E.
```

```
; APPLICANT: Paris, Mark J.
; APPLICANT: Sahasrabudhe, Deepak M.
; APPLICANT: Zauderer, Maurice
; APPLICANT: Smith, Ernest S.
; TITLE OF INVENTION: Methods of Killing Tumor Cells by Targeting Internal Antigens
; FILE REFERENCE: 1843.0190002
; CURRENT APPLICATION NUMBER: US/11/003,819
; CURRENT FILING DATE: 2004-12-06
; PRIOR APPLICATION NUMBER: US 60/256,572
; PRIOR FILING DATE: 2003-12-04
; PRIOR APPLICATION NUMBER: US 60/531,688
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2
; LENGTH: 115
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-003-819-2
```

```
Query Match          77.8%; Score 35; DB 6; Length 115;
Best Local Similarity 66.7%; Pred. No. 54;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 DTLEKLTNT 9
        :|||||:
Db       100 ETLKLTNS 108
```

```
RESULT 23
US-09-833-203-34
; Sequence 34, Application US/09833203
; Publication No. US20030166277A1
; GENERAL INFORMATION:
; APPLICANT: Zauderer, Maurice
; APPLICANT: Smith, Ernest S.
; TITLE OF INVENTION: Targeted Vaccine Delivery Systems
; FILE REFERENCE: 1821.0020001
; CURRENT APPLICATION NUMBER: US/09/833,203
; CURRENT FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: US 60/196,472
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 34
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc. feature
; OTHER INFORMATION: C35
US-09-833-203-34
```

```
Query Match          77.8%; Score 35; DB 3; Length 117;
Best Local Similarity 66.7%; Pred. No. 55;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 DTLEKLTNT 9
        :|||||:
Db       102 ETLKLTNS 110
```

```
RESULT 24
US-10-264-049-4187
; Sequence 4187, Application US/10264049
; Publication No. US20040005579A1
; GENERAL INFORMATION:
; APPLICANT: Birse et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA133P1
; CURRENT APPLICATION NUMBER: US/10/264,049
; CURRENT FILING DATE: 2002-10-04
```

PRIOR APPLICATION NUMBER: PCT/US01/18569  
PRIOR FILING DATE: 2001-06-07  
PRIOR APPLICATION NUMBER: US 60/209,467  
PRIOR FILING DATE: 2000-06-07  
NUMBER OF SEQ ID NOS: 4360  
SOFTWARE: PatentIn Ver. 3.1  
SEQ ID NO 4187  
LENGTH: 124  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-264-049-4187

Query Match 77.8%; Score 35; DB 4; Length 124;  
Best Local Similarity 66.7%; Pred. No. 59;  
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DTLEKLTNT 9  
:|||||:  
Db 109 ETLKLTNTS 117

RESULT 25  
US-09-925-301-966  
Sequence 966, Application US/09925301  
Patent No. US20020052308A1  
GENERAL INFORMATION:  
APPLICANT: Rosen et al.  
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
FILE REFERENCE: PA106  
CURRENT APPLICATION NUMBER: US/09/925,301  
CURRENT FILING DATE: 2001-08-10  
PRIOR APPLICATION NUMBER: PCT/US00/05882  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/124,270  
PRIOR FILING DATE: 1999-03-12  
NUMBER OF SEQ ID NOS: 1694  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 966  
LENGTH: 131  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-925-301-966

Query Match 77.8%; Score 35; DB 3; Length 131;  
Best Local Similarity 66.7%; Pred. No. 63;  
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DTLEKLTNT 9  
:|||||:  
Db 116 ETLKLTNTS 124

RESULT 26  
US-10-457-829-155  
Sequence 155, Application US/10457829  
Publication No. US20040063907A1  
GENERAL INFORMATION:  
APPLICANT: Zauderer, Maurice  
APPLICANT: Evans, Elizabeth E.  
APPLICANT: Borrellio, Melinda A.  
TITLE OF INVENTION: A Gene Differentially Expressed in Breast and  
TITLE OF INVENTION: Bladder Cancer, and Encoded Polypeptides  
FILE REFERENCE: 1821.0040005  
CURRENT APPLICATION NUMBER: US/10/457,829  
CURRENT FILING DATE: 2003-06-10  
PRIOR APPLICATION NUMBER: US 60/464,650  
PRIOR FILING DATE: 2003-04-23  
NUMBER OF SEQ ID NOS: 160  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 155  
LENGTH: 131  
TYPE: PRT  
ORGANISM: Homo sapiens

US-10-457-829-155

Query Match 77.8%; Score 35; DB 4; Length 131;  
Best Local Similarity 66.7%; Pred. No. 63;  
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DTLEKLTNT 9  
:|||||:  
Db 116 ETLKLTNTS 124

RESULT 27  
US-10-617-320-4010  
Sequence 4010, Application US/10617320  
Publication No. US20050136404A1  
GENERAL INFORMATION:  
APPLICANT: Lynn A Doucette-Stamm and David Bush  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID  
SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE FOR DIAGNOSIS  
THERAPEUTICS

NUMBER OF SEQUENCES: 5206  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: GENOME THERAPEUTICS CORPORATION  
STREET: 100 Beaver Street  
CITY: Waltham  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02354

COMPUTER READABLE FORM:  
MEDIUM TYPE: CD-ROM ISO9660  
COMPUTER: <Unknown>  
OPERATING SYSTEM: <Unknown>  
SOFTWARE: <Unknown>

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/617,320  
FILING DATE: 10-Jul-2003  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/107,433  
FILING DATE: 30-Jun-1998

APPLICATION NUMBER: 60/085131  
FILING DATE: May 12, 1998  
APPLICATION NUMBER: 60/051553  
FILING DATE: July 2, 1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Arinello, Pamela Deneke  
REGISTRATION NUMBER: 40,489  
REFERENCE/DOCKET NUMBER: GTC-011

TELECOMMUNICATION INFORMATION:  
TELEPHONE: (781)893-5007  
TELEFAX: (781)893-8277  
INFORMATION FOR SEQ ID NO: 4010:

SEQUENCE CHARACTERISTICS:  
LENGTH: 180 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: YES  
ORIGINAL SOURCE:  
ORGANISM: Streptococcus pneumoniae  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (B) LOCATION 1...180

SEQUENCE DESCRIPTION: SEQ ID NO: 4010:  
US-10-617-320-4010

Query Match 77.8%; Score 35; DB 5; Length 180;  
Best Local Similarity 87.5%; Pred. No. 90;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TLEKLTNT 9  
:|||||:  
Db 159 TLEKLTNTS 166

RESULT 28  
US-10-177-293-480  
Sequence 480, Application US/10177293  
Publication No. US20030124128A1  
GENERAL INFORMATION:  
APPLICANT: Lillie, James  
APPLICANT: Glatt, Karen  
APPLICANT: Zhao, Xumei  
APPLICANT: Gannavarpu, Manjula  
APPLICANT: Kamatkar, Shubhangi  
APPLICANT: Mertens, Maureen  
APPLICANT: Myer, Vic  
APPLICANT: Wang, Youzhen  
APPLICANT: Xu, Yongyao  
APPLICANT: Hoersch, Sebastian  
APPLICANT: Monahan, John  
APPLICANT: Meyers, Rachel E.  
APPLICANT: Baer Jr., Robert C.  
APPLICANT: Horobagyi, Gabriel N.  
APPLICANT: Puertal, Lajos  
APPLICANT: Meric, Funda  
APPLICANT: Sahin, Aysegul  
APPLICANT: Mills, Gordon B.  
TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT,  
TITLE OF INVENTION: PREVENTION, AND THERAPY OF BREAST CANCER  
FILE REFERENCE: MRI-038  
CURRENT APPLICATION NUMBER: US/10/177,293  
CURRENT FILING DATE: 2002-06-21  
PRIOR APPLICATION NUMBER: US 60/299,887  
PRIOR FILING DATE: 2001-06-21  
PRIOR APPLICATION NUMBER: US 60/301,572  
PRIOR FILING DATE: 2001-06-27  
PRIOR APPLICATION NUMBER: US 60/306,501  
PRIOR FILING DATE: 2001-07-18  
PRIOR APPLICATION NUMBER: US 60/325,002  
PRIOR FILING DATE: 2001-09-25  
PRIOR APPLICATION NUMBER: US 60/362,585  
PRIOR FILING DATE: 2002-03-05  
PRIOR APPLICATION NUMBER: US 60/xxx,xxx  
PRIOR FILING DATE: 2002-05-14  
NUMBER OF SEQ ID NOS: 506  
SOFTWARE: FaastSeq for Windows Version 4.0  
SEQ ID NO 480  
LENGTH: 206  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-177-293-480

Query Match 77.8%; Score 35; DB 4; Length 206;  
Best Local Similarity 66.7%; Pred. No. 1e+02;  
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DTLEKLTNT 9  
Db 191 ETLLEKLTNS 199

RESULT 29  
US-09-765-272-6  
Sequence 6, Application US/09765272  
Parent No. US20020061545A1  
GENERAL INFORMATION:  
APPLICANT: Choi et. al.  
TITLE OF INVENTION: Streptococcus pneumoniae Antigens and Vaccines  
NUMBER OF SEQUENCES: 452  
CORRESPONDENCE ADDRESSES:  
ADDRESSER: Human Genome Sciences, Inc.  
STREET: 9410 Key West Avenue  
CITY: Rockville  
STATE: Maryland  
COUNTRY: USA  
ZIP: 20850

COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage  
COMPUTER: HP Vectra 486/33  
OPERATING SYSTEM: MSDOS version 6.2  
SOFTWARE: ASCII Text  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/765,272  
FILING DATE: 22-Jan-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/961,083  
FILING DATE: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Brookes, A. Anders  
REGISTRATION NUMBER: 36,373  
REFERENCE/DOCKET NUMBER: PB340P2  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (301) 309-8504  
TELEFAX: (301) 309-8512  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 249 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: Protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
US-09-765-272-6

Query Match 77.8%; Score 35; DB 3; Length 249;  
Best Local Similarity 87.5%; Pred. No. 1.3e+02;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TLEKLTNT 9  
Db 228 TLEKLTNT 235

RESULT 30  
US-11-106-649-6  
Sequence 6, Application US/11106649  
Publication No. US20050181439A1  
GENERAL INFORMATION:  
APPLICANT: Choi et al.  
TITLE OF INVENTION: Streptococcus pneumoniae Antigens and Vaccines  
FILE REFERENCE: PB340P2C3D1  
CURRENT APPLICATION NUMBER: US/11/106,649  
CURRENT FILING DATE: 2005-04-15  
PRIOR APPLICATION NUMBER: US 09/765,271  
PRIOR FILING DATE: 2001-01-22  
PRIOR APPLICATION NUMBER: US 09/536,784  
PRIOR FILING DATE: 2000-03-28  
PRIOR APPLICATION NUMBER: US 08/961,083  
PRIOR FILING DATE: 1997-10-30  
PRIOR APPLICATION NUMBER: US 60/029,960  
PRIOR FILING DATE: 1996-10-31  
NUMBER OF SEQ ID NOS: 454  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 6  
LENGTH: 249  
TYPE: PRT  
ORGANISM: Streptococcus pneumoniae  
US-11-106-649-6

Query Match 77.8%; Score 35; DB 6; Length 249;  
Best Local Similarity 87.5%; Pred. No. 1.3e+02;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TLEKLTNT 9  
Db 228 TLEKLTNT 235

```
RESULT 31
US-09-765-272-226
; Sequence 226, Application US/09765272
; Patent No. US20020061545A1
; GENERAL INFORMATION:
; APPLICANT: Choi et. al.
; TITLE OF INVENTION: Streptococcus pneumoniae Antigens and Vaccines
; NUMBER OF SEQUENCES: 452
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: Maryland
; COUNTRY: USA
; ZIP: 20850
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4mb storage
; COMPUTER: HP Vectra 486/33
; OPERATING SYSTEM: MSDOS version 6.2
; SOFTWARE: ASCII Text
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/765,272
; FILING DATE: 22-Jan-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/961,083
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Brookes, A. Anders
; REGISTRATION NUMBER: 36,373
; REFERENCE/DOCKET NUMBER: PB340P2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301) 309-8504
; TELEFAX: (301) 309-8512
;
; INFORMATION FOR SEQ ID NO: 226:
; LENGTH: 250 amino acids
; SEQUENCE CHARACTERISTICS:
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 226:
US-09-765-272-226

Query Match      77.8%; Score 35; DB 3; Length 250;
Best Local Similarity 87.5%; Pred. No. 1.3e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      2 TLEKLTNT 9
Db      229 TLEKLSNT 236

RESULT 32
US-11-106-649-226
; Sequence 226, Application US/11106649
; Publication No. US20050181439A1
; GENERAL INFORMATION:
; APPLICANT: Choi et al.
; TITLE OF INVENTION: Streptococcus pneumoniae Antigens and Vaccines
; FILE REFERENCE: PB340P2CJD1
; CURRENT APPLICATION NUMBER: US/11/106,649
; PRIOR FILING DATE: 2005-04-15
; PRIOR APPLICATION NUMBER: US 09/765,271
; PRIOR FILING DATE: 2001-01-22
; PRIOR APPLICATION NUMBER: US 09/536,784
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: US 08/961,083
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 60/029,960
; PRIOR FILING DATE: 1996-10-31
; NUMBER OF SEQ ID NOS: 454
; SOFTWARE: PatentIn version 3.3
```

```
; SEQ ID NO 226
; LENGTH: 250
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-11-106-649-226

Query Match      77.8%; Score 35; DB 6; Length 250;
Best Local Similarity 87.5%; Pred. No. 1.3e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      2 TLEKLTNT 9
Db      229 TLEKLSNT 236

RESULT 33
US-09-769-787-165
; Sequence 165, Application US/09769787
; Publication No. US20030091577A1
; GENERAL INFORMATION:
; APPLICANT: Microbial Techniques Limited
; APPLICANT: Gilbert, Christophe FG
; APPLICANT: Hansbro, Philip M
; TITLE OF INVENTION: Proteins
; FILE REFERENCE: PWC/P21129WO
; CURRENT APPLICATION NUMBER: US/09/769,787
; PRIOR FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: GB 9816337.1
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: US 60/125164
; PRIOR FILING DATE: 1999-03-19
; NUMBER OF SEQ ID NOS: 388
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 165
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-09-769-787-165

Query Match      77.8%; Score 35; DB 3; Length 266;
Best Local Similarity 87.5%; Pred. No. 1.4e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      2 TLEKLTNT 9
Db      245 TLEKLSNT 252

RESULT 34
US-10-472-928-1130
; Sequence 1130, Application US/10472928
; Publication No. US2005020813A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SpA
; TITLE OF INVENTION: THE INSTITUTE FOR GENOMIC RESEARCH
; FILE REFERENCE: P026926WO
; CURRENT APPLICATION NUMBER: US/10/472,928
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: GB-0107658.7
; PRIOR FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 4979
; SOFTWARE: SeqWin99, version 1.03
; SEQ ID NO 1130
; LENGTH: 271
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
; FEATURE:
; OTHER INFORMATION: amino acid ABC transporter, amino acid-binding protein, putative
; OTHER INFORMATION: Cellular location: lipoprotein
; OTHER INFORMATION: Similar to strain R6 sequence 15902569 (e-151)
US-10-472-928-1130
```

Query Match 77.8%; Score 35; DB 5; Length 271;  
Best Local Similarity 87.5%; Pred. No. 1.4e+02;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 DTLEKLTNT 9  
Db 250 TLEKLSNT 257

RESULT 35  
US-10-369-493-1100

; Sequence 1100, Application US/10369493  
; Publication No. US20030233675A1  
; GENERAL INFORMATION:

; APPLICANT: Hinkle, Gregory J.  
; APPLICANT: Slater, Steven C.  
; APPLICANT: Goldman, Barry S.  
; APPLICANT: Chen, Xianfeng  
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF  
; FILE REFERENCE: 38-10(52052)B  
; CURRENT FILING DATE: 2003-02-28  
; PRIOR APPLICATION NUMBER: US 60/360,039  
; PRIOR FILING DATE: 2002-02-21  
; NUMBER OF SEQ ID NOS: 47374  
; SEQ ID NO 1100  
; LENGTH: 303  
; TYPE: PRT  
; ORGANISM: Methanobacterium thermoautotrophicum  
US-10-369-493-1100

Query Match 77.8%; Score 35; DB 4; Length 303;  
Best Local Similarity 66.7%; Pred. No. 1.6e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DTLEKLTNT 9  
Db 203 DTVESITNT 211

RESULT 36  
US-10-732-923-20255

; Sequence 20255, Application US/10732923  
; Publication No. US20050108791A1  
; GENERAL INFORMATION:  
; APPLICANT: Edgerton, Michael D  
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES  
; FILE REFERENCE: 38-15(52796)C  
; CURRENT APPLICATION NUMBER: US/10/732,923  
; CURRENT FILING DATE: 2003-12-10  
; PRIOR APPLICATION NUMBER: 10/310,154  
; PRIOR FILING DATE: 2002-12-04  
; NUMBER OF SEQ ID NOS: 24149  
; SEQ ID NO 20255  
; LENGTH: 463  
; TYPE: PRT  
; ORGANISM: Saccharomyces cerevisiae  
US-10-732-923-20255

Query Match 77.8%; Score 35; DB 5; Length 463;  
Best Local Similarity 77.8%; Pred. No. 2.6e+02;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DTLEKLTNT 9  
Db 40 DCFEKLNT 48

RESULT 37  
US-10-732-923-20254  
; Sequence 20254, Application US/10732923

; Publication No. US20050108791A1  
; GENERAL INFORMATION:  
; APPLICANT: Edgerton, Michael D  
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES  
; FILE REFERENCE: 38-15(52796)C  
; CURRENT APPLICATION NUMBER: US/10/732,923  
; CURRENT FILING DATE: 2003-12-10  
; PRIOR APPLICATION NUMBER: 10/310,154  
; PRIOR FILING DATE: 2002-12-04  
; NUMBER OF SEQ ID NOS: 24149  
; SEQ ID NO 20254  
; LENGTH: 594  
; TYPE: PRT  
; ORGANISM: Saccharomyces cerevisiae  
US-10-732-923-20254

Query Match 77.8%; Score 35; DB 5; Length 594;  
Best Local Similarity 77.8%; Pred. No. 3.4e+02;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DTLEKLTNT 9  
Db 162 DCFEKLNT 170

RESULT 38  
US-10-732-923-20252

; Sequence 20252, Application US/10732923  
; Publication No. US20050108791A1  
; GENERAL INFORMATION:  
; APPLICANT: Edgerton, Michael D  
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES  
; FILE REFERENCE: 38-15(52796)C  
; CURRENT APPLICATION NUMBER: US/10/732,923  
; CURRENT FILING DATE: 2003-12-10  
; PRIOR APPLICATION NUMBER: 10/310,154  
; PRIOR FILING DATE: 2002-12-04  
; NUMBER OF SEQ ID NOS: 24149  
; SEQ ID NO 20252  
; LENGTH: 603  
; TYPE: PRT  
; ORGANISM: Saccharomyces cerevisiae  
US-10-732-923-20252

Query Match 77.8%; Score 35; DB 5; Length 603;  
Best Local Similarity 77.8%; Pred. No. 3.5e+02;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DTLEKLTNT 9  
Db 171 DCFEKLNT 179

RESULT 39  
US-10-732-923-20253

; Sequence 20253, Application US/10732923  
; Publication No. US20050108791A1  
; GENERAL INFORMATION:  
; APPLICANT: Edgerton, Michael D  
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES  
; FILE REFERENCE: 38-15(52796)C  
; CURRENT APPLICATION NUMBER: US/10/732,923  
; CURRENT FILING DATE: 2003-12-10  
; PRIOR APPLICATION NUMBER: 10/310,154  
; PRIOR FILING DATE: 2002-12-04  
; NUMBER OF SEQ ID NOS: 24149  
; SEQ ID NO 20253  
; LENGTH: 603  
; TYPE: PRT  
; ORGANISM: Saccharomyces cerevisiae  
US-10-732-923-20253

Query Match 77.8%; Score 35; DB 5; Length 603;

Best Local Similarity 77.8%; Pred. No. 3.5e+02;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DTLEKLTNT 9  
Db 171 DCEFKLTNT 179

RESULT 40

US-10-369-493-10074  
; Sequence 10074, Application US/10369493  
; Publication No. US20030233675A1  
; GENERAL INFORMATION:  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Hinkle, Gregory J.  
; APPLICANT: Slater, Steven C.  
; APPLICANT: Goldman, Barry S.  
; APPLICANT: Chen, Xianfeng  
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF  
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES  
; FILE REFERENCE: 38-10152052B  
; CURRENT APPLICATION NUMBER: US/10/369,493  
; PRIOR FILING DATE: 2003-02-28  
; PRIOR APPLICATION NUMBER: US 60/360,039  
; PRIOR FILING DATE: 2002-02-21  
; NUMBER OF SEQ ID NOS: 47374  
; SEQ ID NO 10074  
; LENGTH: 982  
; TYPE: PRT  
; ORGANISM: magnetite-containing magnetic coccus  
US-10-369-493-10074

Query Match 77.8%; Score 35; DB 4; Length 982;  
Best Local Similarity 87.5%; Pred. No. 6.1e+02;  
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DTLEKLTN 8  
Db 335 DTLESLTN 342

RESULT 41

US-10-282-122A-69274  
; Sequence 69274, Application US/10282122A  
; Publication No. US20040029129A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Liangsu  
; APPLICANT: Zamudio, Carlos  
; APPLICANT: Malone, Cheryl  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Karl  
; APPLICANT: Zykkind, Judith  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John  
; APPLICANT: Carr, Grant  
; APPLICANT: Yamamoto, Robert  
; APPLICANT: Forsyth, R.  
; APPLICANT: Xu, H.  
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
; FILE REFERENCE: ELITRA.034A  
; CURRENT APPLICATION NUMBER: US/10/282,122A  
; CURRENT FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: 60/191,078  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: 60/206,848  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 60/207,727  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: 60/230,335  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: 60/230,347  
; PRIOR FILING DATE: 2000-09-09  
; PRIOR APPLICATION NUMBER: 60/242,578

; PRIOR FILING DATE: 2000-10-23  
; PRIOR APPLICATION NUMBER: 60/253,625  
; PRIOR FILING DATE: 2000-11-27  
; PRIOR APPLICATION NUMBER: 60/257,931  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: 60/267,636  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: 60/269,308  
; PRIOR FILING DATE: 2001-02-16  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 78614  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 69274  
; LENGTH: 1211  
; TYPE: PRT  
; ORGANISM: Pseudomonas syringae  
US-10-282-122A-69274

Query Match 77.8%; Score 35; DB 4; Length 1211;  
Best Local Similarity 77.8%; Pred. No. 7.7e+02;  
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DTLEKLTNT 9  
Db 185 ELEKLTNT 193

RESULT 42

US-10-282-122A-67605  
; Sequence 67605, Application US/10282122A  
; Publication No. US20040029129A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Liangsu  
; APPLICANT: Zamudio, Carlos  
; APPLICANT: Malone, Cheryl  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Karl  
; APPLICANT: Zykkind, Judith  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John  
; APPLICANT: Carr, Grant  
; APPLICANT: Yamamoto, Robert  
; APPLICANT: Forsyth, R.  
; APPLICANT: Xu, H.  
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
; FILE REFERENCE: ELITRA.034A  
; CURRENT APPLICATION NUMBER: US/10/282,122A  
; CURRENT FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: 60/191,078  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: 60/206,848  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 60/207,727  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: 60/230,335  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: 60/230,347  
; PRIOR FILING DATE: 2000-09-09  
; PRIOR APPLICATION NUMBER: 60/242,578  
; PRIOR FILING DATE: 2000-10-23  
; PRIOR APPLICATION NUMBER: 60/253,625  
; PRIOR FILING DATE: 2000-11-27  
; PRIOR APPLICATION NUMBER: 60/257,931  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: 60/267,636  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: 60/269,308  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 78614  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 67605  
; LENGTH: 1214



TYPE: PRT  
ORGANISM: Pseudomonas putida  
US-10-282-122A-67605

Query Match 77.8%; Score 35; DB 4; Length 1214;  
Best Local Similarity 77.8%; Pred. No. 7.7e+02;  
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DTLEKLTNT 9  
Db 186 ETLLEKLTNT 194

RESULT 43  
US-09-824-787B-117  
Sequence 117, Application US/09824787B  
Patent No. US20020155447A1  
GENERAL INFORMATION:  
APPLICANT: Zauderer, Maurice  
APPLICANT: Evans, Elizabeth E.  
APPLICANT: Borrello, Melinda A.  
TITLE OF INVENTION: A Gene Differentially Expressed in Breast and  
TITLE OF INVENTION: Bladder Cancer, and Encoded Polypeptides  
FILE REFERENCE: 1821.0040001  
CURRENT APPLICATION NUMBER: US/09/824,787B  
CURRENT FILING DATE: 2001-04-04  
PRIOR APPLICATION NUMBER: 60/194,463  
PRIOR FILING DATE: 2000-04-04  
NUMBER OF SEQ ID NOS: 147  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 117  
LENGTH: 9  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-824-787B-117

Query Match 75.6%; Score 34; DB 3; Length 9;  
Best Local Similarity 75.0%; Pred. No. 1.7e+06;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DTLEKLTNT 8  
Db 1 ETLLEKLTNT 8

RESULT 44  
US-10-457-829-117  
Sequence 117, Application US/10457829  
Publication No. US20040063907A1  
GENERAL INFORMATION:  
APPLICANT: Zauderer, Maurice  
APPLICANT: Evans, Elizabeth E.  
APPLICANT: Borrello, Melinda A.  
TITLE OF INVENTION: A Gene Differentially Expressed in Breast and  
TITLE OF INVENTION: Bladder Cancer, and Encoded Polypeptides  
FILE REFERENCE: 1821.0040005  
CURRENT APPLICATION NUMBER: US/10/457,829  
CURRENT FILING DATE: 2003-06-10  
PRIOR APPLICATION NUMBER: US 60/464,650  
PRIOR FILING DATE: 2003-04-23  
NUMBER OF SEQ ID NOS: 160  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 117  
LENGTH: 9  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-457-829-117

Query Match 75.6%; Score 34; DB 4; Length 9;  
Best Local Similarity 75.0%; Pred. No. 1.7e+06;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DTLEKLTNT 8

Db 1 ETLLEKLTNT 8

RESULT 45  
US-10-026-911-6  
Sequence 6, Application US/10026911  
Publication No. US20030078201A1  
GENERAL INFORMATION:  
APPLICANT: Focke, Margarete  
APPLICANT: Mahler, Vera  
APPLICANT: Speer, Wolfgang R.  
APPLICANT: Valent, Peter  
APPLICANT: Kraft, Dietrich  
APPLICANT: Valenta, Rudolf  
TITLE OF INVENTION: Allergy Vaccines and Their Preparation  
FILE REFERENCE: 0273-0005  
CURRENT APPLICATION NUMBER: US/10/026,911  
CURRENT FILING DATE: 2002-07-24  
NUMBER OF SEQ ID NOS: 6  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 6  
LENGTH: 31  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE: Description of Artificial Sequence:  
OTHER INFORMATION: solvent-exposed peptide  
US-10-026-911-6

Query Match 75.6%; Score 34; DB 4; Length 31;  
Best Local Similarity 75.0%; Pred. No. 20;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DTLEKLTNT 8  
Db 21 DTLEKLTNT 28

RESULT 46  
US-10-799-514-6  
Sequence 6, Application US/10799514  
Publication No. US20040241178A1  
GENERAL INFORMATION:  
APPLICANT: Spertini, Francois  
APPLICANT: Cortesey, Blaise  
TITLE OF INVENTION: Allergen Peptide Fragments and Use Thereof  
FILE REFERENCE: 25720-502  
CURRENT APPLICATION NUMBER: US/10/799,514  
CURRENT FILING DATE: 2004-03-12  
PRIOR APPLICATION NUMBER: 60/453,004  
PRIOR FILING DATE: 2003-03-14  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 6  
LENGTH: 80  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE: Description of Artificial Sequence: Synthetic  
OTHER INFORMATION: Peptide  
US-10-799-514-6

Query Match 75.6%; Score 34; DB 5; Length 80;  
Best Local Similarity 75.0%; Pred. No. 57;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DTLEKLTNT 8  
Db 14 DTLEKLTNT 21

RESULT 47

```
US-11-021-949-18
; Sequence 18, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-18

Query Match      75.6%; Score 34; DB 6; Length 149;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 DTLEKLTN 8
        |||||
Db      87 DTLEKLTN 93

RESULT 48
US-10-799-514-19
; Sequence 19, Application US/10799514
; Publication No. US20040241178A1
; GENERAL INFORMATION:
; APPLICANT: Spertini, Francois
; APPLICANT: Cortesey, Blaise
; TITLE OF INVENTION: Allergen Peptide Fragments and Use Thereof
; FILE REFERENCE: 25720-502
; CURRENT APPLICATION NUMBER: US/10/799,514
; CURRENT FILING DATE: 2004-03-12
; PRIOR APPLICATION NUMBER: 60/455,004
; PRIOR FILING DATE: 2003-03-14
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 19
; LENGTH: 153
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Peptide
US-10-799-514-19

Query Match      75.6%; Score 34; DB 5; Length 153;
Best Local Similarity 75.0%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      1 DTLEKLTN 8
        |||||
Db      87 DTLEKLTN 94

RESULT 49
US-10-799-514-21
; Sequence 21, Application US/10799514
; Publication No. US20040241178A1
; GENERAL INFORMATION:
; APPLICANT: Spertini, Francois
; APPLICANT: Cortesey, Blaise
```

```
; TITLE OF INVENTION: Allergen Peptide Fragments and Use Thereof
; FILE REFERENCE: 25720-502
; CURRENT APPLICATION NUMBER: US/10/799,514
; CURRENT FILING DATE: 2004-03-12
; PRIOR APPLICATION NUMBER: 60/455,004
; PRIOR FILING DATE: 2003-03-14
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 21
; LENGTH: 153
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Peptide
US-10-799-514-21

Query Match      75.6%; Score 34; DB 5; Length 153;
Best Local Similarity 75.0%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      1 DTLEKLTN 8
        |||||
Db      14 DTLEKLTN 21

RESULT 50
US-09-981-009B-1
; Sequence 1, Application US/09981009B
; Publication No. US20030041354A1
; GENERAL INFORMATION:
; APPLICANT: Kjaerulf, Soren
; APPLICANT: Kroggen, Erwin
; TITLE OF INVENTION: Transgenic Plants
; FILE REFERENCE: 10082.200-US
; CURRENT APPLICATION NUMBER: US/09/981,009B
; CURRENT FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn Version 3.1
; SEQ ID NO 1
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Betula pendula
US-09-981-009B-1

Query Match      75.6%; Score 34; DB 3; Length 159;
Best Local Similarity 75.0%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      1 DTLEKLTN 8
        |||||
Db      93 DTLEKLTN 100
```

Search completed: May 5, 2006, 08:18:00  
Job time : 61.8 secs

GenCore version 5.1.7  
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OM protein - protein search, using bw model

Run on: May 5, 2006, 08:08:06 ; Search time 8.4 Seconds  
(without alignments)  
49.591 Million cell updates/sec

Title: US-08-170-344-28  
Perfect score: 45  
Sequence: 1 DTLEKLTNT 9

Scoring table: BIOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database : Published Applications\_AA\_New:\*  
1: /SID5/ptodata/1/pubpaa/US08\_NEW\_PUB.pep1.\*  
2: /SID5/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*  
3: /SID5/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.\*  
4: /SID5/ptodata/1/pubpaa/US08\_NEW\_PUB.pep.\*  
5: /SID5/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*  
6: /SID5/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*  
7: /SID5/ptodata/1/pubpaa/US09\_NEW\_PUB.pep1.\*  
8: /SID5/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*  
9: /SID5/ptodata/1/pubpaa/US11\_NEW\_PUB.pep1.\*  
10: /SID5/ptodata/1/pubpaa/US11\_NEW\_PUB.pep1.\*  
11: /SID5/ptodata/1/pubpaa/US11\_NEW\_PUB.pep1.\*  
12: /SID5/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	45	100.0	158	9	US-10-530-253-15
2	39	86.7	11	9	US-10-530-061-45
3	39	86.7	11	9	US-10-530-061-50
4	39	86.7	11	9	US-10-530-061-111
5	39	86.7	158	9	US-10-530-253-20
6	37	82.2	11	9	US-10-530-061-51
7	36	80.0	173	9	US-10-523-362-38
8	35	77.8	115	11	US-11-155-288-11
9	35	77.8	115	11	US-11-233-510-6
10	35	77.8	266	9	US-10-873-528-165
11	35	77.8	11	9	US-10-830-061-614
12	34	75.6	10	9	US-10-530-061-542
13	34	75.6	149	9	US-10-530-253-16
14	34	75.6	160	9	US-10-498-026-81
15	34	75.6	172	11	US-11-102-883-18
16	34	75.6	289	11	US-11-102-883-26
17	34	75.6	300	11	US-11-102-883-6
18	32	71.1	158	9	US-10-530-253-19
19	32	71.1	326	9	US-10-515-002-213
20	31	68.9	158	9	US-10-530-253-26
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22	31	68.9	247	11	US-11-054-515-1206	Sequence 1206, Ap
23	31	68.9	247	11	US-11-266-444-1018	Sequence 1018, Ap
24	31	68.9	247	11	US-11-266-444-1206	Sequence 1206, Ap
25	31	68.9	249	11	US-11-054-515-1009	Sequence 1009, Ap
26	31	68.9	249	11	US-11-054-515-1019	Sequence 1019, Ap
27	31	68.9	249	11	US-11-054-515-1024	Sequence 1024, Ap
28	31	68.9	249	11	US-11-054-515-1123	Sequence 1123, Ap
29	31	68.9	249	11	US-11-054-515-1202	Sequence 1202, Ap
30	31	68.9	249	11	US-11-054-515-1377	Sequence 1377, Ap
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78	31	68.9	251	11	US-11-054-515-1126	Sequence 1126, Ap
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80	31	68.9	251	11	US-11-054-515-1140	Sequence 1140, Ap
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82	31	68.9	251	11	US-11-054-515-1147	Sequence 1147, Ap
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92	31	68.9	251	11	US-11-054-515-1216	Sequence 1216, Ap
93	31	68.9	251	11	US-11-054-515-1219	Sequence 1219, Ap
94	31	68.9	251	11	US-11-054-515-1219	Sequence 1219, Ap

95	31	68.9	251	11	US-11-054-515-1220	Sequence 1220, Ap	168	31	68.9	252	11	US-11-266-444-1128	Sequence 1128, Ap
96	31	68.9	251	11	US-11-054-515-1224	Sequence 1224, Ap	169	31	68.9	252	11	US-11-266-444-1131	Sequence 1131, Ap
97	31	68.9	251	11	US-11-054-515-1232	Sequence 1232, Ap	170	31	68.9	252	11	US-11-266-444-1135	Sequence 1135, Ap
98	31	68.9	251	11	US-11-054-515-1373	Sequence 1373, Ap	171	31	68.9	252	11	US-11-266-444-1145	Sequence 1145, Ap
99	31	68.9	251	11	US-11-054-515-1501	Sequence 1501, Ap	172	31	68.9	252	11	US-11-266-444-1163	Sequence 1163, Ap
100	31	68.9	251	11	US-11-054-515-1556	Sequence 1556, Ap	173	31	68.9	252	11	US-11-266-444-1218	Sequence 1218, Ap
101	31	68.9	251	11	US-11-054-515-1591	Sequence 1591, Ap	174	31	68.9	252	11	US-11-266-444-1236	Sequence 1236, Ap
102	31	68.9	251	11	US-11-054-515-1712	Sequence 1712, Ap	175	31	68.9	252	11	US-11-266-444-1291	Sequence 1291, Ap
103	31	68.9	251	11	US-11-054-515-1832	Sequence 1832, Ap	176	31	68.9	252	11	US-11-266-444-1376	Sequence 1376, Ap
104	31	68.9	251	11	US-11-054-515-1840	Sequence 1840, Ap	177	31	68.9	252	11	US-11-266-444-1378	Sequence 1378, Ap
105	31	68.9	251	11	US-11-266-444-890	Sequence 890, App	178	31	68.9	252	11	US-11-266-444-1433	Sequence 1433, Ap
106	31	68.9	251	11	US-11-266-444-891	Sequence 891, App	179	31	68.9	252	11	US-11-266-444-1505	Sequence 1505, Ap
107	31	68.9	251	11	US-11-266-444-894	Sequence 894, App	180	31	68.9	252	11	US-11-266-444-1517	Sequence 1517, Ap
108	31	68.9	251	11	US-11-266-444-903	Sequence 903, App	181	31	68.9	252	11	US-11-266-444-1549	Sequence 1549, Ap
109	31	68.9	251	11	US-11-266-444-910	Sequence 910, App	182	31	68.9	252	11	US-11-266-444-1575	Sequence 1575, Ap
110	31	68.9	251	11	US-11-266-444-1010	Sequence 1010, Ap	183	31	68.9	252	11	US-11-266-444-1590	Sequence 1590, Ap
111	31	68.9	251	11	US-11-266-444-1011	Sequence 1011, Ap	184	31	68.9	252	11	US-11-266-444-1590	Sequence 1590, Ap
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113	31	68.9	251	11	US-11-266-444-1020	Sequence 1020, Ap	186	31	68.9	253	11	US-11-266-444-1681	Sequence 1681, Ap
114	31	68.9	251	11	US-11-266-444-1121	Sequence 1121, Ap	187	31	68.9	254	11	US-11-266-444-1227	Sequence 1227, Ap
115	31	68.9	251	11	US-11-266-444-1122	Sequence 1122, Ap	188	31	68.9	254	11	US-11-054-515-1136	Sequence 1136, Ap
116	31	68.9	251	11	US-11-266-444-1126	Sequence 1126, Ap	189	31	68.9	254	11	US-11-054-515-1165	Sequence 1165, Ap
117	31	68.9	251	11	US-11-266-444-1127	Sequence 1127, Ap	190	31	68.9	254	11	US-11-266-444-1266	Sequence 1266, Ap
118	31	68.9	251	11	US-11-266-444-1130	Sequence 1130, Ap	191	31	68.9	254	11	US-11-266-444-1136	Sequence 1136, Ap
119	31	68.9	251	11	US-11-266-444-1140	Sequence 1140, Ap	192	31	68.9	254	11	US-11-266-444-1165	Sequence 1165, Ap
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122	31	68.9	251	11	US-11-266-444-1148	Sequence 1148, Ap	195	31	68.9	256	11	US-11-266-444-1150	Sequence 1150, Ap
123	31	68.9	251	11	US-11-266-444-1149	Sequence 1149, Ap	196	31	68.9	256	11	US-11-266-444-1230	Sequence 1230, Ap
124	31	68.9	251	11	US-11-266-444-1151	Sequence 1151, Ap	197	31	68.9	270	11	US-11-188-299-22192	Sequence 22192, A
125	31	68.9	251	11	US-11-266-444-1152	Sequence 1152, Ap	198	31	68.9	275	11	US-11-188-299-18775	Sequence 18775, A
126	31	68.9	251	11	US-11-266-444-1155	Sequence 1155, Ap	199	31	68.9	293	11	US-11-188-299-7727	Sequence 7727, Ap
127	31	68.9	251	11	US-11-266-444-1157	Sequence 1157, Ap	200	31	68.9	317	11	US-11-087-099-5330	Sequence 5330, Ap
128	31	68.9	251	11	US-11-266-444-1162	Sequence 1162, Ap	201	31	68.9	317	11	US-11-188-299-5839	Sequence 5839, Ap
129	31	68.9	251	11	US-11-266-444-1166	Sequence 1166, Ap	202	31	68.9	317	11	US-11-188-299-10603	Sequence 10603, A
130	31	68.9	251	11	US-11-266-444-1211	Sequence 1211, Ap	203	31	68.9	318	11	US-11-188-299-10603	Sequence 10603, A
131	31	68.9	251	11	US-11-266-444-1216	Sequence 1216, Ap	204	31	68.9	346	9	US-10-523-503-40	Sequence 40, Appl
132	31	68.9	251	11	US-11-266-444-1219	Sequence 1219, Ap	205	31	68.9	574	11	US-11-188-299-6884	Sequence 6884, Ap
133	31	68.9	251	11	US-11-266-444-1220	Sequence 1220, Ap	206	31	68.9	574	11	US-11-188-299-18570	Sequence 18570, A
134	31	68.9	251	11	US-11-266-444-1224	Sequence 1224, Ap	207	31	68.9	757	11	US-11-090-617-554	Sequence 554, App
135	31	68.9	251	11	US-11-266-444-1232	Sequence 1232, Ap	208	31	68.9	1711	9	US-10-506-454-1532	Sequence 1532, Ap
136	31	68.9	251	11	US-11-266-444-1373	Sequence 1373, Ap	209	30	66.7	110	11	US-11-045-004-1837	Sequence 1837, Ap
137	31	68.9	251	11	US-11-266-444-1501	Sequence 1501, Ap	210	30	66.7	111	11	US-11-045-004-298	Sequence 298, App
138	31	68.9	251	11	US-11-266-444-1556	Sequence 1556, Ap	211	30	66.7	128	11	US-11-158-848-16	Sequence 16, Appl
139	31	68.9	251	11	US-11-266-444-1591	Sequence 1591, Ap	212	30	66.7	128	11	US-11-158-848-33	Sequence 33, Appl
140	31	68.9	251	11	US-11-266-444-1712	Sequence 1712, Ap	213	30	66.7	129	11	US-11-158-848-15	Sequence 15, Appl
141	31	68.9	251	11	US-11-266-444-1832	Sequence 1832, Ap	214	30	66.7	129	11	US-11-158-848-32	Sequence 32, Appl
142	31	68.9	251	11	US-11-266-444-1840	Sequence 1840, Ap	215	30	66.7	130	11	US-11-158-848-31	Sequence 31, Appl
143	31	68.9	252	11	US-11-054-515-897	Sequence 897, App	216	30	66.7	130	11	US-11-158-848-31	Sequence 31, Appl
144	31	68.9	252	11	US-11-054-515-1016	Sequence 1016, Ap	217	30	66.7	131	11	US-11-158-848-13	Sequence 13, Appl
145	31	68.9	252	11	US-11-054-515-1021	Sequence 1021, Ap	218	30	66.7	131	11	US-11-158-848-30	Sequence 30, Appl
146	31	68.9	252	11	US-11-054-515-1048	Sequence 1048, Ap	219	30	66.7	132	11	US-11-158-848-12	Sequence 12, Appl
147	31	68.9	252	11	US-11-054-515-1118	Sequence 1118, Ap	220	30	66.7	132	11	US-11-158-848-29	Sequence 29, Appl
148	31	68.9	252	11	US-11-054-515-1131	Sequence 1131, Ap	221	30	66.7	132	11	US-11-045-004-2661	Sequence 2661, Ap
149	31	68.9	252	11	US-11-054-515-1135	Sequence 1135, Ap	222	30	66.7	133	11	US-11-158-848-11	Sequence 11, Appl
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151	31	68.9	252	11	US-11-054-515-1163	Sequence 1163, Ap	224	30	66.7	134	11	US-11-158-848-10	Sequence 10, Appl
152	31	68.9	252	11	US-11-054-515-1218	Sequence 1218, Ap	225	30	66.7	134	11	US-11-158-848-27	Sequence 27, Appl
153	31	68.9	252	11	US-11-054-515-1221	Sequence 1221, Ap	226	30	66.7	135	11	US-11-158-848-9	Sequence 9, Appl
154	31	68.9	252	11	US-11-054-515-1236	Sequence 1236, Ap	227	30	66.7	135	11	US-11-158-848-26	Sequence 26, Appl
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156	31	68.9	252	11	US-11-054-515-1378	Sequence 1378, Ap	229	30	66.7	136	11	US-11-158-848-25	Sequence 25, Appl
157	31	68.9	252	11	US-11-054-515-1493	Sequence 1493, Ap	230	30	66.7	137	11	US-11-158-848-7	Sequence 7, Appl
158	31	68.9	252	11	US-11-054-515-1505	Sequence 1505, Ap	231	30	66.7	137	11	US-11-158-848-24	Sequence 24, Appl
159	31	68.9	252	11	US-11-054-515-1517	Sequence 1517, Ap	232	30	66.7	138	11	US-11-158-848-6	Sequence 6, Appl
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161	31	68.9	252	11	US-11-054-515-1575	Sequence 1575, Ap	234	30	66.7	139	11	US-11-158-848-5	Sequence 5, Appl
162	31	68.9	252	11	US-11-054-515-1590	Sequence 1590, Ap	235	30	66.7	139	11	US-11-158-848-22	Sequence 22, Appl
163	31	68.9	252	11	US-11-054-515-1861	Sequence 1861, Ap	236	30	66.7	140	11	US-11-158-848-4	Sequence 4, Appl
164	31	68.9	252	11	US-11-266-444-897	Sequence 897, App	237	30	66.7	140	11	US-11-158-848-21	Sequence 21, Appl
165	31	68.9	252	11	US-11-266-444-1016	Sequence 1016, Ap	238	30	66.7	140	11	US-11-158-848-34	Sequence 34, Appl
166	31	68.9	252	11	US-11-266-444-1021	Sequence 1021, Ap	239	30	66.7	141	11	US-11-158-848-3	Sequence 3, Appl
167	31	68.9	252	11	US-11-266-444-1048	Sequence 1048, Ap	240	30	66.7	141	11	US-11-158-848-20	Sequence 20, Appl

241	30	66.7	142	11	US-11-158-848-2	Sequence 2, Appl1	314	29	64.4	314	11	US-11-188-298-12324	Sequence 12324, A
242	30	66.7	142	11	US-11-158-848-19	Sequence 19, Appl1	315	29	64.4	320	11	US-11-188-298-11234	Sequence 11234, A
243	30	66.7	143	11	US-11-158-848-1	Sequence 1, Appl1	316	29	64.4	320	11	US-11-188-298-11760	Sequence 13760, A
244	30	66.7	143	11	US-11-158-848-17	Sequence 17, Appl1	317	29	64.4	353	11	US-11-096-568A-31346	Sequence 31346, A
245	30	66.7	146	9	US-10-519-390-10	Sequence 10, Appl1	318	29	64.4	375	11	US-11-188-298-8393	Sequence 8393, A
246	30	66.7	146	11	US-11-176-830-199	Sequence 199, App	319	29	64.4	380	11	US-11-188-298-406	Sequence 406, App
247	30	66.7	146	11	US-11-176-830-290	Sequence 290, App	320	29	64.4	411	11	US-11-188-298-18503	Sequence 18503, A
248	30	66.7	146	11	US-11-176-830-291	Sequence 291, App	321	29	64.4	414	11	US-11-188-298-12871	Sequence 12871, A
249	30	66.7	146	11	US-11-176-830-292	Sequence 292, App	322	29	64.4	430	11	US-11-096-568A-11483	Sequence 11483, A
250	30	66.7	146	11	US-11-176-830-293	Sequence 293, App	323	29	64.4	472	11	US-11-096-568A-11482	Sequence 11482, A
251	30	66.7	146	11	US-11-176-830-294	Sequence 294, App	324	29	64.4	474	11	US-11-188-298-11919	Sequence 11919, A
252	30	66.7	146	11	US-11-176-830-295	Sequence 295, App	325	29	64.4	501	11	US-11-188-298-18989	Sequence 18989, A
253	30	66.7	146	11	US-11-176-830-296	Sequence 296, App	326	29	64.4	502	11	US-11-079-463-5899	Sequence 5899, App
254	30	66.7	146	11	US-11-176-830-297	Sequence 297, App	327	29	64.4	566	11	US-11-045-004-11774	Sequence 11774, App
255	30	66.7	146	11	US-11-176-830-298	Sequence 298, App	328	29	64.4	572	11	US-11-188-298-19335	Sequence 19335, A
256	30	66.7	146	11	US-11-176-830-299	Sequence 299, App	329	29	64.4	589	11	US-11-188-298-4740	Sequence 4740, App
257	30	66.7	146	11	US-11-176-830-300	Sequence 300, App	330	29	64.4	589	11	US-11-188-298-21096	Sequence 21096, A
258	30	66.7	146	11	US-11-176-830-301	Sequence 301, App	331	29	64.4	721	9	US-10-542-178-1	Sequence 1, Appl1
259	30	66.7	146	11	US-11-176-830-302	Sequence 302, App	332	29	64.4	971	8	US-10-505-928-397	Sequence 397, App
260	30	66.7	146	11	US-11-176-830-303	Sequence 303, App	333	29	64.4	996	11	US-11-079-463-6193	Sequence 6193, App
261	30	66.7	146	11	US-11-176-830-304	Sequence 304, App	334	29	64.4	1031	11	US-11-096-568A-30064	Sequence 30064, A
262	30	66.7	146	11	US-11-176-830-305	Sequence 305, App	335	29	64.4	1096	11	US-11-096-568A-30063	Sequence 30063, A
263	30	66.7	146	11	US-11-176-830-306	Sequence 306, App	336	29	64.4	1124	11	US-11-096-568A-30062	Sequence 30062, A
264	30	66.7	146	11	US-11-176-830-307	Sequence 307, App	337	29	64.4	1186	15	US-10-530-061-1672	Sequence 1672, App
265	30	66.7	146	11	US-11-176-830-308	Sequence 308, App	338	28	62.2	87	11	US-10-530-061-1672	Sequence 1672, App
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267	30	66.7	146	11	US-11-176-830-310	Sequence 310, App	340	28	62.2	87	11	US-11-096-568A-9389	Sequence 9389, App
268	30	66.7	146	11	US-11-176-830-311	Sequence 311, App	341	28	62.2	106	9	US-10-538-471-5	Sequence 5, Appl1
269	30	66.7	158	11	US-11-045-004-2251	Sequence 2251, App	342	28	62.2	151	11	US-11-045-004-1071	Sequence 1071, App
270	30	66.7	161	11	US-11-079-463-8838	Sequence 9838, App	343	28	62.2	152	11	US-11-188-298-8375	Sequence 8375, App
271	30	66.7	166	8	US-10-511-937-2501	Sequence 2501, App	344	28	62.2	174	11	US-11-096-568A-9387	Sequence 9387, App
272	30	66.7	166	9	US-10-936-447-22	Sequence 22, Appl1	345	28	62.2	258	11	US-11-096-568A-10488	Sequence 10488, A
273	30	66.7	166	10	US-11-183-218-20	Sequence 20, Appl1	346	28	62.2	263	11	US-11-188-298-11551	Sequence 11551, A
274	30	66.7	166	11	US-11-158-848-18	Sequence 18, Appl1	347	28	62.2	268	11	US-11-188-298-6365	Sequence 6365, App
275	30	66.7	166	11	US-11-158-848-18	Sequence 18, Appl1	348	28	62.2	270	11	US-11-188-298-19475	Sequence 19475, A
276	30	66.7	166	11	US-11-147-159-48	Sequence 4, Appl1	349	28	62.2	274	11	US-11-188-298-10721	Sequence 10721, A
277	30	66.7	166	11	US-11-183-205-20	Sequence 20, Appl1	350	28	62.2	280	11	US-11-188-298-115899	Sequence 115899, A
278	30	66.7	166	11	US-11-210-251-2	Sequence 2, Appl1	351	28	62.2	287	11	US-11-087-099-294	Sequence 294, App
279	30	66.7	166	11	US-11-246-387-6	Sequence 6, Appl1	352	28	62.2	297	11	US-11-087-099-294	Sequence 294, App
280	30	66.7	173	11	US-11-096-568A-25835	Sequence 25835, A	353	28	62.2	310	11	US-11-096-568A-3850	Sequence 3850, App
281	30	66.7	181	11	US-11-096-568A-25834	Sequence 25834, A	354	28	62.2	310	11	US-11-188-298-11480	Sequence 11480, App
282	30	66.7	184	9	US-10-665-658-7	Sequence 7, Appl1	355	28	62.2	311	11	US-11-188-298-11569	Sequence 11569, A
283	30	66.7	184	9	US-10-665-658-8	Sequence 8, Appl1	356	28	62.2	311	11	US-11-096-568A-3849	Sequence 3849, App
284	30	66.7	188	11	US-11-098-686-10230	Sequence 10230, A	357	28	62.2	313	11	US-11-188-298-17086	Sequence 17086, A
285	30	66.7	213	9	US-10-523-362-24	Sequence 24, Appl1	358	28	62.2	314	11	US-11-188-298-14074	Sequence 14074, A
286	30	66.7	294	11	US-11-053-554A-71	Sequence 71, Appl1	359	28	62.2	315	11	US-11-188-298-15076	Sequence 15076, A
287	30	66.7	309	11	US-11-087-039-8647	Sequence 8647, App	360	28	62.2	315	11	US-11-188-298-11115	Sequence 11115, App
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289	30	66.7	309	11	US-11-045-004-1737	Sequence 1737, App	362	28	62.2	317	11	US-11-188-298-4209	Sequence 4209, App
290	30	66.7	335	11	US-11-087-039-1878	Sequence 1878, App	363	28	62.2	318	11	US-11-188-298-1681	Sequence 1681, App
291	30	66.7	403	11	US-11-079-463-7976	Sequence 7976, App	364	28	62.2	318	11	US-11-188-298-14885	Sequence 14885, A
292	30	66.7	425	11	US-11-045-004-1988	Sequence 1988, App	365	28	62.2	318	11	US-11-188-298-1261	Sequence 1261, App
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295	30	66.7	728	9	US-10-936-447-10	Sequence 10, Appl1	368	28	62.2	318	11	US-11-188-298-637	Sequence 637, App
296	30	66.7	1158	9	US-10-501-035-366	Sequence 366, App	369	28	62.2	319	11	US-11-188-298-1107	Sequence 1107, App
297	30	66.7	1158	11	US-11-075-646-6	Sequence 6, Appl1	370	28	62.2	319	11	US-11-188-298-1267	Sequence 1267, App
298	30	66.7	1170	8	US-10-511-937-3087	Sequence 3087, App	371	28	62.2	319	11	US-11-188-298-16531	Sequence 16531, A
299	30	66.7	1170	11	US-11-080-026-2	Sequence 2, Appl1	372	28	62.2	319	11	US-11-152-892-10	Sequence 10, Appl1
300	30	66.7	1170	11	US-11-107-028-4	Sequence 4, Appl1	373	28	62.2	330	11	US-11-188-298-16864	Sequence 16864, A
301	30	66.7	1201	11	US-11-045-004-689	Sequence 689, App	374	28	62.2	330	11	US-11-152-892-10	Sequence 10, Appl1
302	30	66.7	1290	11	US-11-096-568A-28044	Sequence 28044, A	375	28	62.2	335	11	US-11-152-892-12	Sequence 12, Appl1
303	30	66.7	1294	11	US-11-096-568A-28043	Sequence 28043, A	376	28	62.2	338	11	US-11-079-463-5743	Sequence 5743, App
304	30	66.7	1327	11	US-11-096-568A-28042	Sequence 28042, A	377	28	62.2	341	11	US-11-188-298-18488	Sequence 18488, A
305	30	66.7	1686	11	US-11-089-508-8	Sequence 8, Appl1	378	28	62.2	342	11	US-11-152-892-11	Sequence 11, Appl1
306	30	66.4	9	9	US-10-530-061-613	Sequence 613, App	379	28	62.2	343	8	US-10-478-743B-4	Sequence 4, Appl1
307	29	64.4	3	9	US-10-957-887B-237	Sequence 237, App	380	28	62.2	349	11	US-11-098-686-11337	Sequence 11337, A
308	29	64.4	159	11	US-11-096-568A-29761	Sequence 29761, A	381	28	62.2	358	11	US-11-188-298-12205	Sequence 12205, A
309	29	64.4	173	9	US-10-506-454-652	Sequence 652, App	382	28	62.2	362	11	US-11-188-298-1938	Sequence 1938, App
310	29	64.4	250	11	US-11-079-463-5916	Sequence 5916, App	383	28	62.2	379	11	US-11-144-833-11	Sequence 11, Appl1
311	29	64.4	271	11	US-11-188-298-22199	Sequence 22199, A	384	28	62.2	380	11	US-11-096-568A-18516	Sequence 18516, A
312	29	64.4	295	11	US-11-045-004-1197	Sequence 1197, App	385	28	62.2	382	8	US-10-478-743B-2	Sequence 2, Appl1
313	29	64.4	313	11	US-11-188-298-17907	Sequence 17907, A	386	28	62.2	386	11	US-11-045-004-853	Sequence 853, App

387	28	62.2	389	11	US-11-188-298-1081	Sequence 1081, Ap	460	27	60.0	252	11	US-11-266-444-1366	Sequence 1366, Ap
388	28	62.2	402	11	US-11-188-298-14964	Sequence 14964, A	461	27	60.0	252	11	US-11-266-444-1656	Sequence 1656, Ap
389	28	62.2	402	10	US-11-301-554-1932	Sequence 1932, Ap	462	27	60.0	252	11	US-11-266-444-8715	Sequence 8715, Ap
390	28	62.2	420	11	US-11-096-568A-18515	Sequence 18515, A	463	27	60.0	253	11	US-11-079-463-8715	Sequence 1199, Ap
391	28	62.2	437	11	US-11-045-004-756	Sequence 756, App	464	27	60.0	253	11	US-11-266-444-1199	Sequence 1109, Ap
392	28	62.2	464	10	US-11-301-554-1934	Sequence 1934, Ap	465	27	60.0	254	11	US-11-054-515-1508	Sequence 1508, Ap
393	28	62.2	464	11	US-11-090-617-556	Sequence 556, App	466	27	60.0	254	11	US-11-054-515-1709	Sequence 1709, Ap
394	28	62.2	464	11	US-11-072-512-3563	Sequence 3563, Ap	467	27	60.0	254	11	US-11-266-444-1568	Sequence 1508, Ap
395	28	62.2	495	11	US-11-079-463-10323	Sequence 10323, A	468	27	60.0	254	11	US-11-266-444-1709	Sequence 1709, Ap
396	28	62.2	511	11	US-11-045-004-42	Sequence 42, App1	469	27	60.0	254	11	US-11-188-298-16803	Sequence 16803, A
397	28	62.2	542	11	US-11-214-199-44	Sequence 44, App1	470	27	60.0	255	11	US-11-054-515-1012	Sequence 1012, Ap
398	28	62.2	542	11	US-11-194-991-8	Sequence 8, App1	471	27	60.0	255	11	US-11-266-444-1101	Sequence 1012, Ap
399	28	62.2	569	11	US-11-031-206-116	Sequence 116, App	472	27	60.0	256	11	US-11-054-515-1693	Sequence 1693, Ap
400	28	62.2	596	9	US-10-514-581-17	Sequence 17, App1	473	27	60.0	256	11	US-11-266-444-1693	Sequence 1693, A
401	28	62.2	596	9	US-10-514-581-18	Sequence 18, App1	474	27	60.0	261	11	US-11-188-298-15982	Sequence 2651, Ap
402	28	62.2	596	9	US-10-514-581-19	Sequence 19, App1	475	27	60.0	268	11	US-11-045-004-2651	Sequence 2651, Ap
403	28	62.2	615	9	US-10-514-581-20	Sequence 20, App1	476	27	60.0	292	7	US-09-995-493-118	Sequence 118, App
404	28	62.2	615	9	US-10-514-581-21	Sequence 21, App1	477	27	60.0	296	9	US-10-510-386-58	Sequence 58, App1
405	28	62.2	629	9	US-10-514-581-10	Sequence 10, App1	478	27	60.0	312	11	US-11-045-004-1969	Sequence 1969, Ap
406	28	62.2	690	11	US-11-188-298-20220	Sequence 20220, A	479	27	60.0	313	11	US-11-045-004-2072	Sequence 2072, Ap
407	28	62.2	814	9	US-10-878-556A-161	Sequence 161, App	480	27	60.0	315	11	US-11-045-004-555	Sequence 555, App
408	28	62.2	814	9	US-10-538-471-4	Sequence 4, App1	481	27	60.0	318	11	US-11-096-568A-9702	Sequence 9702, Ap
409	28	62.2	850	9	US-10-455-772-1074	Sequence 1074, Ap	482	27	60.0	320	11	US-11-096-568A-10835	Sequence 10835, A
410	28	62.2	911	9	US-10-455-772-1078	Sequence 1078, Ap	483	27	60.0	329	11	US-11-045-004-1388	Sequence 1388, Ap
411	28	62.2	915	9	US-10-455-772-1076	Sequence 1076, Ap	484	27	60.0	331	11	US-11-096-568A-9701	Sequence 9701, Ap
412	28	62.2	921	9	US-10-455-772-1080	Sequence 1080, Ap	485	27	60.0	331	11	US-11-045-004-491	Sequence 491, App
413	28	62.2	969	11	US-11-096-568A-30346	Sequence 30346, A	486	27	60.0	333	11	US-11-127-877-57	Sequence 57, App1
414	28	62.2	979	11	US-11-096-568A-30345	Sequence 30345, A	487	27	60.0	338	11	US-11-079-463-9240	Sequence 9240, Ap
415	28	62.2	1055	11	US-11-096-568A-30344	Sequence 30344, A	488	27	60.0	339	11	US-11-096-568A-9700	Sequence 9700, Ap
416	28	62.2	1075	8	US-10-322-836-48	Sequence 48, App1	489	27	60.0	339	11	US-11-188-298-16060	Sequence 16060, A
417	28	62.2	1091	11	US-11-045-004-963	Sequence 963, App	490	27	60.0	340	11	US-11-087-099-8973	Sequence 8973, App
418	28	62.2	1324	11	US-11-089-508-12	Sequence 12, App1	491	27	60.0	341	11	US-11-087-099-1370	Sequence 1370, Ap
419	28	62.2	1571	11	US-11-134-587B-12	Sequence 12, App1	492	27	60.0	354	11	US-11-096-568A-11536	Sequence 11536, A
420	28	62.2	1571	11	US-11-134-587B-13	Sequence 13, App1	493	27	60.0	365	11	US-11-087-099-11730	Sequence 11730, A
421	28	62.2	1588	11	US-11-052-554A-280	Sequence 280, App	494	27	60.0	376	11	US-11-096-568A-11535	Sequence 11535, A
422	28	62.2	1910	11	US-11-134-587B-2	Sequence 2, App1	495	27	60.0	381	11	US-11-072-512-2948	Sequence 2948, Ap
423	28	62.2	1910	11	US-11-134-587B-3	Sequence 3, App1	496	27	60.0	384	11	US-11-096-568A-30570	Sequence 30570, A
424	27	60.0	43	9	US-10-957-887B-223	Sequence 223, App	497	27	60.0	390	11	US-11-087-099-12286	Sequence 12286, A
425	27	60.0	87	11	US-11-096-568A-11136	Sequence 11136, A	498	27	60.0	390	11	US-11-096-568A-30569	Sequence 30569, A
426	27	60.0	93	11	US-11-264-096-1486	Sequence 1486, Ap	499	27	60.0	399	11	US-11-087-099-7685	Sequence 7685, Ap
427	27	60.0	105	11	US-11-096-568A-11135	Sequence 11135, A	500	27	60.0	402	11	US-11-098-686-10827	Sequence 10827, A
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431	27	60.0	158	11	US-11-096-568A-11134	Sequence 11134, A	504	27	60.0	428	11	US-11-188-298-20267	Sequence 20267, A
432	27	60.0	158	11	US-11-045-004-2712	Sequence 2712, Ap	505	27	60.0	429	11	US-11-188-298-1529	Sequence 1529, Ap
433	27	60.0	165	11	US-11-096-568A-4179	Sequence 4179, Ap	506	27	60.0	439	11	US-11-188-298-6917	Sequence 6917, Ap
434	27	60.0	177	9	US-10-506-454-124	Sequence 124, App	507	27	60.0	444	11	US-11-079-463-6104	Sequence 6104, Ap
435	27	60.0	192	8	US-10-505-928-578	Sequence 578, App	508	27	60.0	456	11	US-11-150-845-32	Sequence 32, App1
436	27	60.0	192	11	US-11-072-175-193	Sequence 193, App	509	27	60.0	466	11	US-11-150-488-32	Sequence 32, App1
437	27	60.0	192	11	US-11-096-568A-4178	Sequence 4178, Ap	510	27	60.0	442	11	US-11-074-176-282	Sequence 282, App
438	27	60.0	211	11	US-11-096-568A-5063	Sequence 5063, Ap	511	27	60.0	447	9	US-10-967-527A-14	Sequence 14, App1
439	27	60.0	239	9	US-10-485-517-192	Sequence 192, App	512	27	60.0	447	11	US-11-102-621-130	Sequence 130, App
440	27	60.0	239	9	US-10-485-517-195	Sequence 195, App	513	27	60.0	447	11	US-11-102-621-131	Sequence 131, App
441	27	60.0	239	9	US-10-485-517-323	Sequence 323, App	514	27	60.0	447	11	US-11-102-621-132	Sequence 132, App
442	27	60.0	242	11	US-11-054-515-1580	Sequence 1580, Ap	515	27	60.0	447	11	US-11-102-621-133	Sequence 133, App
443	27	60.0	242	11	US-11-266-444-1580	Sequence 1580, Ap	516	27	60.0	447	11	US-11-102-621-134	Sequence 134, App
444	27	60.0	246	11	US-11-054-515-1655	Sequence 1655, Ap	517	27	60.0	470	11	US-11-121-438-35	Sequence 35, App1
445	27	60.0	246	11	US-11-266-444-1655	Sequence 1655, Ap	518	27	60.0	490	11	US-11-121-438-35	Sequence 35, App1
446	27	60.0	248	11	US-11-054-515-1599	Sequence 1599, Ap	519	27	60.0	494	9	US-10-763-712A-71	Sequence 71, App1
447	27	60.0	248	11	US-11-054-515-1617	Sequence 1617, Ap	520	27	60.0	494	9	US-10-763-712A-111	Sequence 111, App
448	27	60.0	248	11	US-11-266-444-1599	Sequence 1599, Ap	521	27	60.0	503	9	US-10-821-234-1527	Sequence 1527, Ap
449	27	60.0	248	11	US-11-266-444-1617	Sequence 1617, Ap	522	27	60.0	505	11	US-11-079-463-7991	Sequence 7991, Ap
450	27	60.0	249	11	US-11-054-515-1419	Sequence 1419, Ap	523	27	60.0	506	11	US-11-096-568A-34051	Sequence 34051, A
451	27	60.0	249	11	US-11-054-515-1442	Sequence 1442, Ap	524	27	60.0	521	11	US-11-096-568A-34050	Sequence 34050, A
452	27	60.0	249	11	US-11-266-444-1419	Sequence 1419, Ap	525	27	60.0	533	11	US-11-188-298-17881	Sequence 17881, A
453	27	60.0	249	11	US-11-266-444-1442	Sequence 1442, Ap	526	27	60.0	533	11	US-11-188-298-19166	Sequence 19166, A
454	27	60.0	250	11	US-11-054-515-1460	Sequence 1460, Ap	527	27	60.0	544	11	US-11-045-004-335	Sequence 335, App
455	27	60.0	250	11	US-11-266-444-1460	Sequence 1460, Ap	528	27	60.0	547	11	US-11-096-568A-34049	Sequence 34049, A
456	27	60.0	251	11	US-11-054-515-1671	Sequence 1671, Ap	529	27	60.0	553	11	US-11-188-298-5727	Sequence 5727, Ap
457	27	60.0	251	11	US-11-266-444-1671	Sequence 1671, Ap	530	27	60.0	559	9	US-10-506-454-999	Sequence 999, App
458	27	60.0	252	11	US-11-054-515-1366	Sequence 1366, Ap	531	27	60.0	584	11	US-11-188-298-1862	Sequence 1862, Ap
459	27	60.0	252	11	US-11-054-515-1656	Sequence 1656, Ap	532	27	60.0	668	11	US-11-072-512-2308	Sequence 2308, Ap

533	27	60.0	685	11	US-11-072-512-2916	Sequence 2916, Ap	606	25	57.8	252	11	US-11-266-444-898	Sequence 898, App
534	27	60.0	688	11	US-11-045-004-1816	Sequence 1816, Ap	607	26	57.8	252	11	US-11-266-444-1169	Sequence 1169, Ap
535	27	60.0	752	11	US-11-072-512-2991	Sequence 2991, Ap	608	26	57.8	252	11	US-11-266-444-1583	Sequence 1583, Ap
536	27	60.0	763	11	US-11-188-298-17209	Sequence 17209, A	609	26	57.8	253	11	US-11-054-515-902	Sequence 902, App
537	27	60.0	766	11	US-11-188-298-9041	Sequence 9041, Ap	610	26	57.8	253	11	US-11-054-515-909	Sequence 909, App
538	27	60.0	788	8	US-10-485-346-2	Sequence 2, Appl1	611	26	57.8	253	11	US-11-054-515-1125	Sequence 1125, Ap
539	27	60.0	793	8	US-10-510-903-4	Sequence 4, Appl1	612	26	57.8	253	11	US-11-054-515-1167	Sequence 1167, Ap
540	27	60.0	814	11	US-11-079-463-9513	Sequence 9513, Ap	613	26	57.8	253	11	US-11-054-515-1235	Sequence 1235, Ap
541	27	60.0	849	11	US-11-087-099-1756	Sequence 1756, Ap	614	26	57.8	253	11	US-11-266-444-902	Sequence 902, App
542	27	60.0	877	11	US-11-188-298-1850	Sequence 18520, A	615	26	57.8	253	11	US-11-266-444-909	Sequence 1125, Ap
543	27	60.0	878	11	US-11-188-298-6160	Sequence 6160, Ap	616	26	57.8	253	11	US-11-266-444-1115	Sequence 1167, Ap
544	27	60.0	939	11	US-11-188-298-10003	Sequence 10003, A	617	26	57.8	253	11	US-11-266-444-1175	Sequence 1235, Ap
545	27	60.0	1003	11	US-11-188-298-8292	Sequence 8292, Ap	618	26	57.8	253	11	US-11-266-444-1375	Sequence 1045, Ap
546	27	60.0	1021	11	US-11-079-463-7535	Sequence 7535, Ap	619	26	57.8	253	11	US-11-266-444-1325	Sequence 1375, Ap
547	27	60.0	1034	11	US-11-072-512-2343	Sequence 2343, Ap	620	26	57.8	254	11	US-11-054-515-1045	Sequence 1045, Ap
548	27	60.0	1094	11	US-11-098-686-10160	Sequence 10160, A	621	26	57.8	254	11	US-11-266-444-1175	Sequence 1045, Ap
549	27	60.0	1147	11	US-11-188-298-4701	Sequence 4701, Ap	622	26	57.8	260	11	US-11-079-463-7999	Sequence 1235, Ap
550	27	60.0	1184	9	US-10-131-826A-412	Sequence 412, App	623	26	57.8	261	11	US-11-188-298-4179	Sequence 1375, Ap
551	27	60.0	1184	9	US-10-973-115B-412	Sequence 412, App	624	26	57.8	263	11	US-11-096-568A-12639	Sequence 902, App
552	27	60.0	1184	9	US-10-137-873A-412	Sequence 412, App	625	26	57.8	263	11	US-11-096-568A-12639	Sequence 909, App
553	27	60.0	1184	9	US-10-152-370-412	Sequence 412, App	626	26	57.8	263	11	US-11-096-568A-12639	Sequence 1167, Ap
554	27	60.0	1184	11	US-11-290-153-412	Sequence 412, App	627	26	57.8	267	11	US-11-045-004-2533	Sequence 1235, Ap
555	27	60.0	1209	11	US-11-188-298-19847	Sequence 19847, A	628	26	57.8	270	11	US-11-172-740-1122	Sequence 1045, Ap
556	27	60.0	1294	11	US-11-188-298-9622	Sequence 9622, Ap	629	26	57.8	278	9	US-10-515-417-13	Sequence 1235, Ap
557	27	60.0	1294	11	US-11-019-711-111	Sequence 111, App	630	26	57.8	278	9	US-10-515-417-13	Sequence 1235, Ap
558	27	60.0	1495	11	US-11-096-568A-31249	Sequence 31249, A	631	26	57.8	281	11	US-11-096-568A-25646	Sequence 1235, Ap
559	27	60.0	1885	11	US-11-096-568A-31248	Sequence 31248, A	632	26	57.8	281	11	US-10-793-626-3024	Sequence 1235, Ap
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561	27	60.0	2004	9	US-10-469-469-250	Sequence 250, App	634	26	57.8	299	11	US-11-096-568A-12638	Sequence 1235, Ap
562	27	60.0	4384	9	US-10-821-234-1120	Sequence 1120, App	635	26	57.8	299	11	US-11-096-568A-25645	Sequence 1235, Ap
563	26	57.8	22	9	US-10-881-661-4	Sequence 4, Appl1	636	26	57.8	304	11	US-11-188-298-8223	Sequence 8223, App
564	26	57.8	22	11	US-11-178-160-3	Sequence 3, Appl1	637	26	57.8	304	11	US-11-188-298-8223	Sequence 333, App
565	26	57.8	22	11	US-11-116-203-8	Sequence 8, Appl1	638	26	57.8	306	11	US-11-156-084-333	Sequence 2066, A
566	26	57.8	43	9	US-10-957-887B-234	Sequence 234, App	639	26	57.8	309	11	US-11-082-389-306	Sequence 306, App
567	26	57.8	65	9	US-10-467-657-3514	Sequence 3514, Ap	640	26	57.8	310	11	US-11-082-389-306	Sequence 306, App
568	26	57.8	65	9	US-11-096-568A-3428	Sequence 3428, Ap	641	26	57.8	311	11	US-11-079-463-6983	Sequence 6983, App
569	26	57.8	113	9	US-10-793-626-3282	Sequence 3282, App	642	26	57.8	314	11	US-11-188-298-13742	Sequence 13742, A
570	26	57.8	123	11	US-11-144-947-596	Sequence 596, App	643	26	57.8	315	11	US-11-144-947-458	Sequence 458, App
571	26	57.8	126	11	US-11-264-096-935	Sequence 935, App	644	26	57.8	319	11	US-11-188-298-19811	Sequence 19821, A
572	26	57.8	141	11	US-11-072-512-3225	Sequence 3225, Ap	645	26	57.8	319	11	US-11-188-298-16450	Sequence 16450, A
573	26	57.8	145	11	US-11-082-389-310	Sequence 310, App	646	26	57.8	320	11	US-11-188-298-16450	Sequence 16450, A
574	26	57.8	150	11	US-11-096-568A-24935	Sequence 24935, A	647	26	57.8	321	11	US-11-188-298-1349	Sequence 1349, App
575	26	57.8	155	11	US-11-096-568A-16436	Sequence 16436, A	648	26	57.8	326	11	US-11-096-568A-12637	Sequence 12637, A
576	26	57.8	157	11	US-11-264-096-933	Sequence 933, App	649	26	57.8	326	11	US-11-079-463-8662	Sequence 8662, App
577	26	57.8	165	11	US-11-096-568A-3427	Sequence 3427, Ap	650	26	57.8	332	11	US-11-188-298-7993	Sequence 7993, App
578	26	57.8	177	11	US-11-072-512-3332	Sequence 3332, Ap	651	26	57.8	332	11	US-11-188-298-7993	Sequence 7993, App
579	26	57.8	180	11	US-11-052-554A-205	Sequence 205, App	652	26	57.8	333	11	US-11-188-298-13069	Sequence 13069, App
580	26	57.8	185	11	US-11-096-568A-3426	Sequence 3426, App	653	26	57.8	333	11	US-11-188-298-12053	Sequence 12053, A
581	26	57.8	185	11	US-11-096-568A-16435	Sequence 16435, A	654	26	57.8	334	11	US-11-096-568A-25644	Sequence 25644, A
582	26	57.8	186	9	US-10-873-528-105	Sequence 105, App	655	26	57.8	336	11	US-11-096-568A-6913	Sequence 6913, App
583	26	57.8	188	9	US-10-936-888-1	Sequence 1, Appl1	656	26	57.8	337	11	US-11-096-568A-6913	Sequence 6913, App
584	26	57.8	191	11	US-11-264-728-18	Sequence 18, Appl1	657	26	57.8	337	11	US-11-079-463-8298	Sequence 8298, App
585	26	57.8	199	11	US-11-045-004-126	Sequence 1026, Ap	658	26	57.8	340	11	US-11-188-298-9125	Sequence 9125, App
586	26	57.8	202	11	US-11-087-099-384	Sequence 384, App	659	26	57.8	349	11	US-11-188-298-16763	Sequence 16763, A
587	26	57.8	210	11	US-11-045-004-1155	Sequence 1155, Ap	660	26	57.8	350	11	US-11-188-298-8019	Sequence 8019, App
588	26	57.8	212	11	US-11-096-568A-10131	Sequence 10131, A	661	26	57.8	351	11	US-11-096-568A-31706	Sequence 31706, A
589	26	57.8	213	11	US-11-045-004-1252	Sequence 1252, Ap	662	26	57.8	351	11	US-11-188-298-1826	Sequence 1826, App
590	26	57.8	218	11	US-11-096-568A-10130	Sequence 10130, A	663	26	57.8	351	11	US-11-188-298-9125	Sequence 9125, App
591	26	57.8	218	11	US-11-188-298-9096	Sequence 9096, Ap	664	26	57.8	352	11	US-11-188-298-14472	Sequence 14472, A
592	26	57.8	225	9	US-10-784-004-431	Sequence 431, App	665	26	57.8	354	11	US-11-188-298-10336	Sequence 10336, A
593	26	57.8	225	9	US-10-784-004-949	Sequence 949, App	666	26	57.8	354	11	US-11-188-298-10336	Sequence 10336, A
594	26	57.8	244	11	US-11-096-568A-10129	Sequence 10129, A	667	26	57.8	355	11	US-11-188-298-4828	Sequence 4828, App
595	26	57.8	249	11	US-11-054-515-1138	Sequence 1138, Ap	668	26	57.8	355	11	US-11-188-298-5799	Sequence 5799, App
596	26	57.8	250	11	US-11-266-444-1138	Sequence 1138, Ap	669	26	57.8	355	11	US-11-188-298-10281	Sequence 10281, App
597	26	57.8	250	11	US-11-054-515-889	Sequence 889, App	670	26	57.8	356	11	US-11-087-099-11297	Sequence 11297, A
598	26	57.8	251	11	US-11-266-444-899	Sequence 1229, Ap	671	26	57.8	356	11	US-11-188-298-21375	Sequence 21375, A
599	26	57.8	251	11	US-11-054-515-1229	Sequence 1229, Ap	672	26	57.8	358	11	US-11-096-568A-31705	Sequence 31705, A
600	26	57.8	251	11	US-11-054-515-1374	Sequence 1374, Ap	673	26	57.8	360	11	US-11-188-298-5253	Sequence 5253, App
601	26	57.8	251	11	US-11-266-444-1229	Sequence 1229, Ap	674	26	57.8	360	11	US-11-188-298-19978	Sequence 19978, A
602	26	57.8	251	11	US-11-266-444-1374	Sequence 1374, Ap	675	26	57.8	360	11	US-11-188-298-20843	Sequence 20843, A
603	26	57.8	252	11	US-11-054-515-898	Sequence 898, App	676	26	57.8	361	11	US-11-096-568A-20667	Sequence 20667, A
604	26	57.8	252	11	US-11-054-515-1169	Sequence 1169, Ap	677	26	57.8	361	11	US-11-096-568A-20667	Sequence 20667, A
605	26	57.8	252	11	US-11-054-515-1583	Sequence 1583, Ap	678	26	57.8	361	11	US-11-096-568A-23949	Sequence 23949, A

679	26	57.8	363	8	US-10-511-937-2987	Sequence 2987, Ap	752	26	57.8	717	11	US-11-045-004-1590	Sequence 1590, Ap
680	26	57.8	364	11	US-11-096-568A-6912	Sequence 6912, Ap	753	26	57.8	731	11	US-11-045-004-2406	Sequence 2406, Ap
681	26	57.8	364	11	US-11-079-463-9680	Sequence 9680, Ap	754	26	57.8	767	9	US-10-784-004-140	Sequence 740, Ap
682	26	57.8	369	11	US-11-096-568A-20866	Sequence 20866, A	755	26	57.8	767	9	US-10-784-004-1092	Sequence 1092, Ap
683	26	57.8	373	8	US-10-511-937-2447	Sequence 2447, Ap	756	26	57.8	798	9	US-10-784-004-422	Sequence 422, Ap
684	26	57.8	375	11	US-11-188-298-3711	Sequence 3711, Ap	757	26	57.8	798	9	US-10-784-004-946	Sequence 946, Ap
685	26	57.8	389	11	US-11-096-568A-31704	Sequence 31704, A	758	26	57.8	821	9	US-10-784-004-693	Sequence 693, Ap
686	26	57.8	389	11	US-11-087-099-11578	Sequence 11528, A	759	26	57.8	821	9	US-10-784-004-682	Sequence 682, Ap
687	26	57.8	401	11	US-11-096-568A-23701	Sequence 23701, A	760	26	57.8	826	9	US-10-821-234-1048	Sequence 1048, Ap
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689	26	57.8	409	9	US-10-821-234-992	Sequence 892, Ap	762	26	57.8	842	9	US-10-909-769-22	Sequence 24, Ap
690	26	57.8	413	11	US-11-096-568A-23348	Sequence 23948, A	763	26	57.8	858	11	US-11-054-281-135	Sequence 135, Ap
691	26	57.8	419	9	US-10-506-454-973	Sequence 973, Ap	764	26	57.8	862	8	US-10-511-937-2974	Sequence 2974, Ap
692	26	57.8	420	11	US-11-072-512-2007	Sequence 2007, Ap	765	26	57.8	862	11	US-11-128-420-11	Sequence 11, Ap
693	26	57.8	421	11	US-11-096-568A-23047	Sequence 23947, Ap	766	26	57.8	862	11	US-11-007-428-2	Sequence 2, Ap
694	26	57.8	423	11	US-11-098-686-10263	Sequence 10263, A	767	26	57.8	862	11	US-11-183-294-16	Sequence 16, Ap
695	26	57.8	426	11	US-11-240-769-98	Sequence 98, Ap	768	26	57.8	862	11	US-11-235-037-9	Sequence 9, Ap
696	26	57.8	427	11	US-11-096-568A-2502	Sequence 2502, Ap	769	26	57.8	867	11	US-11-054-281-134	Sequence 134, Ap
697	26	57.8	433	11	US-11-096-568A-23700	Sequence 23700, A	770	26	57.8	871	11	US-11-087-099-6053	Sequence 6053, Ap
698	26	57.8	433	11	US-11-188-298-3799	Sequence 3799, Ap	771	26	57.8	876	11	US-11-077-550-128	Sequence 128, Ap
699	26	57.8	433	11	US-11-188-298-16964	Sequence 16964, A	772	26	57.8	877	11	US-11-077-550-126	Sequence 126, Ap
700	26	57.8	435	11	US-11-240-769-97	Sequence 97, Ap	773	26	57.8	877	11	US-11-077-550-130	Sequence 130, Ap
701	26	57.8	440	11	US-11-096-568A-32185	Sequence 32185, A	774	26	57.8	881	11	US-11-077-550-124	Sequence 124, Ap
702	26	57.8	457	11	US-11-096-568A-5002	Sequence 5002, Ap	775	26	57.8	902	11	US-11-077-550-132	Sequence 132, Ap
703	26	57.8	458	8	US-10-511-937-2504	Sequence 2504, Ap	776	26	57.8	905	11	US-11-096-568A-27586	Sequence 27586, A
704	26	57.8	458	11	US-11-096-568A-5001	Sequence 5001, Ap	777	26	57.8	912	11	US-11-077-550-116	Sequence 116, Ap
705	26	57.8	461	9	US-10-858-730-62	Sequence 62, Ap	778	26	57.8	914	11	US-11-077-550-120	Sequence 120, Ap
706	26	57.8	472	11	US-11-188-298-17066	Sequence 17066, A	779	26	57.8	921	9	US-10-880-144-2	Sequence 2, Ap
707	26	57.8	475	8	US-10-514-726-1	Sequence 1, Ap	780	26	57.8	944	11	US-11-077-550-112	Sequence 122, Ap
708	26	57.8	477	11	US-11-089-551A-34	Sequence 34, Ap	781	26	57.8	950	11	US-11-077-550-118	Sequence 118, Ap
709	26	57.8	485	11	US-11-165-211-47	Sequence 47, Ap	782	26	57.8	974	9	US-10-330-773-944	Sequence 944, Ap
710	26	57.8	485	11	US-11-165-226-57	Sequence 57, Ap	783	26	57.8	989	11	US-11-188-298-5563	Sequence 5563, Ap
711	26	57.8	496	11	US-11-188-298-6409	Sequence 6409, Ap	784	26	57.8	1007	9	US-10-467-657-8514	Sequence 8514, Ap
712	26	57.8	501	11	US-11-096-568A-5000	Sequence 5000, Ap	785	26	57.8	1014	11	US-11-188-298-10090	Sequence 10090, A
713	26	57.8	506	11	US-11-188-298-12111	Sequence 12111, A	786	26	57.8	1103	11	US-11-096-568A-27585	Sequence 27585, A
714	26	57.8	513	9	US-10-485-517-160	Sequence 160, Ap	787	26	57.8	1120	8	US-10-505-928-213	Sequence 213, Ap
715	26	57.8	515	9	US-10-467-657-1288	Sequence 1288, Ap	788	26	57.8	1124	11	US-11-087-099-4425	Sequence 4425, Ap
716	26	57.8	518	11	US-11-096-568A-32184	Sequence 32184, A	789	26	57.8	1145	11	US-11-096-568A-27584	Sequence 27584, A
717	26	57.8	521	11	US-11-096-568A-32183	Sequence 32183, A	790	26	57.8	1153	11	US-11-044-896-2	Sequence 2, Ap
718	26	57.8	524	9	US-10-063-703-54	Sequence 54, Ap	791	26	57.8	1163	11	US-11-044-899-30	Sequence 30, Ap
719	26	57.8	524	9	US-10-194-487-204	Sequence 204, Ap	792	26	57.8	1206	9	US-10-467-657-72	Sequence 72, Ap
720	26	57.8	524	9	US-10-195-883-204	Sequence 204, Ap	793	26	57.8	1206	11	US-10-467-657-7892	Sequence 7892, Ap
721	26	57.8	524	9	US-10-195-888-204	Sequence 204, Ap	794	26	57.8	1230	11	US-11-087-099-1702	Sequence 1702, Ap
722	26	57.8	524	9	US-10-195-889-204	Sequence 204, Ap	795	26	57.8	1230	11	US-11-087-099-8922	Sequence 8922, Ap
723	26	57.8	524	11	US-11-102-240-54	Sequence 54, Ap	796	26	57.8	1230	11	US-11-188-298-1585	Sequence 1585, Ap
724	26	57.8	524	11	US-11-000-463-877	Sequence 877, Ap	797	26	57.8	1230	11	US-11-188-298-8275	Sequence 8275, Ap
725	26	57.8	524	11	US-11-000-463-878	Sequence 878, Ap	798	26	57.8	1244	11	US-11-188-298-8112	Sequence 8112, Ap
726	26	57.8	524	11	US-11-000-463-879	Sequence 879, Ap	799	26	57.8	1466	11	US-11-079-463-8947	Sequence 8947, Ap
727	26	57.8	524	11	US-11-103-195-54	Sequence 54, Ap	800	26	57.8	1766	11	US-11-196-400-3	Sequence 3, Ap
728	26	57.8	528	9	US-10-467-657-1042	Sequence 1042, Ap	801	26	57.8	1861	9	US-10-784-004-441	Sequence 441, Ap
729	26	57.8	535	11	US-11-194-991-38	Sequence 38, Ap	802	26	57.8	1861	9	US-10-784-004-444	Sequence 444, Ap
730	26	57.8	536	11	US-11-072-512-2780	Sequence 2780, Ap	803	26	57.8	1861	9	US-10-784-004-956	Sequence 956, Ap
731	26	57.8	546	11	US-11-000-463-405	Sequence 405, Ap	804	26	57.8	2340	11	US-11-052-554A-171	Sequence 171, Ap
732	26	57.8	554	11	US-11-079-463-6607	Sequence 6607, Ap	805	26	57.8	3568	9	US-10-453-372-194	Sequence 194, Ap
733	26	57.8	566	11	US-11-000-463-406	Sequence 406, Ap	806	26	57.8	3570	9	US-10-453-372-178	Sequence 178, Ap
734	26	57.8	570	11	US-11-045-004-400	Sequence 400, Ap	807	26	57.8	3570	9	US-10-453-372-196	Sequence 196, Ap
735	26	57.8	573	11	US-11-188-298-8148	Sequence 8148, Ap	808	26	57.8	3570	9	US-10-453-372-198	Sequence 198, Ap
736	26	57.8	573	11	US-11-188-298-9722	Sequence 9722, Ap	809	26	57.8	3570	9	US-10-453-372-200	Sequence 200, Ap
737	26	57.8	576	11	US-11-240-769-70	Sequence 70, Ap	810	26	57.8	3570	9	US-10-453-372-202	Sequence 202, Ap
738	26	57.8	581	11	US-11-188-298-13651	Sequence 13651, A	811	26	57.8	3570	9	US-10-453-372-204	Sequence 204, Ap
739	26	57.8	582	11	US-11-188-298-17785	Sequence 17785, A	812	26	57.8	3570	9	US-10-453-372-206	Sequence 206, Ap
740	26	57.8	585	11	US-11-087-099-2698	Sequence 2698, Ap	813	26	57.8	4051	8	US-10-501-834-7	Sequence 7, Ap
741	26	57.8	589	11	US-11-045-004-11	Sequence 11, Ap	814	26	57.8	4074	8	US-10-501-834-2	Sequence 2, Ap
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## ALIGNMENTS

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US-10-530-253-15
; Sequence 15, Application US/10530253
; Publication No. US2006001926A1
; GENERAL INFORMATION:
; APPLICANT: Casaretti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT FILING DATE: 2005-04-04
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 18
US-10-530-253-15

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; Sequence 45, Application US/10530061
; Publication No. US20060079453A1
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; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT FILING DATE: 2005-04-04
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
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; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT FILING DATE: 2005-04-04
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
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US-10-530-061-50

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; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
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APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.03US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
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US-10-530-061-111
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; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 20
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; ORGANISM: Human papillomavirus type 45
US-10-530-253-20
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; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
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CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
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ORGANISM: Human papillomavirus
US-10-530-061-51
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RESULT 7
US-10-523-362-38
; Sequence 38, Application US/10523362
; Publication No. US20060064784A1
; GENERAL INFORMATION:
; APPLICANT: Charadonnens, Agnes
; APPLICANT: Puzio, Piotr
; TITLE OF INVENTION: Nucleic Acid Sequences Encoding Proteins Associated with Abiotic
; FILE REFERENCE: 532622010300
; CURRENT APPLICATION NUMBER: US/10/523,362
; CURRENT FILING DATE: 2005-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 38
; LENGTH: 173
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-10-523-362-38
```

```
Query Match      80.0% Score 36; DB 9; Length 173;
Best Local Similarity 77.8%; Pred. No. 5.2;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 DTLEKLTNT 9
      |||||
Db      73 DTLEKLTNTS 81
```

```
RESULT 8
US-11-155-288-11
; Sequence 11, Application US/11155288
; Publication No. US20060008468A1
; GENERAL INFORMATION:
; APPLICANT: Chiang, Chih-Sheng
; APPLICANT: Steward, John J.L.
; TITLE OF INVENTION: COMBINATIONS OF TUMOR-ASSOCIATED
; FILE REFERENCE: MANMK.050A
; CURRENT APPLICATION NUMBER: US/11/155,288
; CURRENT FILING DATE: 2005-06-17
; PRIOR APPLICATION NUMBER: 60/580,969
; PRIOR FILING DATE: 2004-06-17
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 115
; TYPE: PRT
; ORGANISM: Homo sapiens
```

US-11-155-288-11

Query Match 77.8%; Score 35; DB 11; Length 115;  
Best Local Similarity 66.7%; Pred. No. 5.1;  
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 DTLEKLTNT 9  
:|||||:  
Db 100 ETLEKLTNS 108

RESULT 9  
US-11-233-510-6  
; Sequence 6, Application US/11233510  
; Publication No. US2006063190A1  
; GENERAL INFORMATION:  
; APPLICANT: Fischer, Timothy J.  
; APPLICANT: Whitehead, Clark M.  
; APPLICANT: Malinowski, Douglas P.  
; APPLICANT: Marcelpoll, Raphael  
; APPLICANT: Morel, Didier  
; TITLE OF INVENTION: Methods and Compositions for Evaluating  
; TITLE OF INVENTION: Breast Cancer Prognosis  
; FILE REFERENCE: 46143/296738  
; CURRENT APPLICATION NUMBER: US/11/233,510  
; CURRENT FILING DATE: 2005-09-22  
; PRIOR APPLICATION NUMBER: 60/612,073  
; PRIOR FILING DATE: 2004-09-22  
; PRIOR APPLICATION NUMBER: 60/611,965  
; PRIOR FILING DATE: 2004-09-22  
; NUMBER OF SEQ ID NOS: 41  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 6  
; LENGTH: 115  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-233-510-6

Query Match 77.8%; Score 35; DB 11; Length 115;  
Best Local Similarity 66.7%; Pred. No. 5.1;  
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 DTLEKLTNT 9  
:|||||:  
Db 100 ETLEKLTNS 108

RESULT 10  
US-10-873-528-165  
; Sequence 165, Application US/10873528  
; Publication No. US2005027681A1  
; GENERAL INFORMATION:  
; APPLICANT: Microbial Technics Limited  
; APPLICANT: Gilbert, Christophe FG  
; APPLICANT: Hansbro, Philip M  
; TITLE OF INVENTION: Proteins  
; FILE REFERENCE: PWC/P21129NO  
; CURRENT APPLICATION NUMBER: US/10/873,528  
; CURRENT FILING DATE: 2004-06-23  
; PRIOR APPLICATION NUMBER: US/09/769,787  
; PRIOR FILING DATE: 2001-01-26  
; PRIOR APPLICATION NUMBER: GB 9816337.1  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: US 60/125164  
; PRIOR FILING DATE: 1999-03-19  
; NUMBER OF SEQ ID NOS: 388  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 165  
; LENGTH: 266  
; TYPE: PRT  
; ORGANISM: Streptococcus pneumoniae  
US-10-873-528-165

Query Match 77.8%; Score 35; DB 9; Length 266;  
Best Local Similarity 87.5%; Pred. No. 14;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9  
:|||||:  
Db 245 TLEKLTNT 252

RESULT 11  
US-10-530-061-614  
; Sequence 614, Application US/10530061  
; Publication No. US20060079453A1  
; GENERAL INFORMATION:  
; APPLICANT: SIDNEY, JOHN  
; APPLICANT: SOUTHWOOD, SCOTT  
; APPLICANT: SETTE, ALESSANDRO  
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
; FILE REFERENCE: 2060.03US02/EKS/M-M  
; CURRENT APPLICATION NUMBER: US/10/530,061  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US03/31308  
; PRIOR FILING DATE: 2003-10-03  
; PRIOR APPLICATION NUMBER: 60/416,207  
; PRIOR FILING DATE: 2002-10-03  
; PRIOR APPLICATION NUMBER: 60/417,269  
; PRIOR FILING DATE: 2002-10-08  
; NUMBER OF SEQ ID NOS: 2503  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 614  
; LENGTH: 9  
; TYPE: PRT  
; ORGANISM: Human papillomavirus  
US-10-530-061-614

Query Match 75.6%; Score 34; DB 9; Length 9;  
Best Local Similarity 100.0%; Pred. No. 1.9e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 TLEKLTNT 8  
:|||||:  
Db 2 TLEKLTNT 8

RESULT 12  
US-10-530-061-542  
; Sequence 542, Application US/10530061  
; Publication No. US20060079453A1  
; GENERAL INFORMATION:  
; APPLICANT: SIDNEY, JOHN  
; APPLICANT: SOUTHWOOD, SCOTT  
; APPLICANT: SETTE, ALESSANDRO  
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
; FILE REFERENCE: 2060.03US02/EKS/M-M  
; CURRENT APPLICATION NUMBER: US/10/530,061  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US03/31308  
; PRIOR FILING DATE: 2003-10-03  
; PRIOR APPLICATION NUMBER: 60/416,207  
; PRIOR FILING DATE: 2002-10-03  
; PRIOR APPLICATION NUMBER: 60/417,269  
; PRIOR FILING DATE: 2002-10-08  
; NUMBER OF SEQ ID NOS: 2503  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 542  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Human papillomavirus  
US-10-530-061-542

Query Match 75.6%; Score 34; DB 9; Length 10;  
Best Local Similarity 100.0%; Pred. No. 0.45;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TLEKLTN 8  
| | | | |  
Db 3 TLEKLTN 9

RESULT 13  
US-10-530-253-16  
; Sequence 16, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Cassecci, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 16  
; LENGTH: 149  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 31  
US-10-530-253-16

Query Match 75.6%; Score 34; DB 9; Length 149;  
Best Local Similarity 100.0%; Pred. No. 11;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TLEKLTN 8  
| | | | |  
Db 87 TLEKLTN 93

RESULT 14  
US-10-498-026-81  
; Sequence 81, Application US/10498026  
; Publication No. US20060024334A1  
; GENERAL INFORMATION:  
; APPLICANT: CIRCASSIA LIMITED  
; TITLE OF INVENTION: IMMUNOTHERAPEUTIC METHODS AND SYSTEMS  
; FILE REFERENCE: N.87430 WO GCM  
; CURRENT APPLICATION NUMBER: US/10/498,026  
; CURRENT FILING DATE: 2004-06-04  
; NUMBER OF SEQ ID NOS: 118  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 81  
; LENGTH: 160  
; TYPE: PRT  
; ORGANISM: Betula pendula  
US-10-498-026-81

Query Match 75.6%; Score 34; DB 9; Length 160;  
Best Local Similarity 75.0%; Pred. No. 12;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DTEKLTN 8  
| | | | |  
Db 94 DTEKLTN 101

RESULT 15  
US-11-102-883-18  
; Sequence 18, Application US/11102883  
; Publication No. US20050281816A1  
; GENERAL INFORMATION:  
; APPLICANT: Lamping, Norbert

; APPLICANT: Cramerli, Reto  
; APPLICANT: Fluckiger, Sabina  
; APPLICANT: Daigle, Isabelle  
; TITLE OF INVENTION: Modular Antigen Transporter Molecules (MAT Molecules) for  
; TITLE OF INVENTION: Modulating Immune Reactions, Associated Constructs, Methods and  
; FILE REFERENCE: 031002349A  
; CURRENT APPLICATION NUMBER: US/11/102,883  
; CURRENT FILING DATE: 2005-04-11  
; PRIOR APPLICATION NUMBER: EP02022774.0  
; PRIOR FILING DATE: 2002-10-11  
; PRIOR APPLICATION NUMBER: PCT/EP2003/011190  
; PRIOR FILING DATE: 2003-10-09  
; NUMBER OF SEQ ID NOS: 44  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 18  
; LENGTH: 172  
; TYPE: PRT  
; ORGANISM: Betula verrucosa  
US-11-102-883-18

Query Match 75.6%; Score 34; DB 11; Length 172;  
Best Local Similarity 75.0%; Pred. No. 13;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DTEKLTN 8  
| | | | |  
Db 106 DTEKLTN 113

RESULT 16  
US-11-102-883-26  
; Sequence 26, Application US/11102883  
; Publication No. US20050281816A1  
; GENERAL INFORMATION:  
; APPLICANT: Lamping, Norbert  
; APPLICANT: Cramerli, Reto  
; APPLICANT: Fluckiger, Sabina  
; APPLICANT: Daigle, Isabelle  
; TITLE OF INVENTION: Modular Antigen Transporter Molecules (MAT Molecules) for  
; TITLE OF INVENTION: Modulating Immune Reactions, Associated Constructs, Methods and  
; FILE REFERENCE: 031002349A  
; CURRENT APPLICATION NUMBER: US/11/102,883  
; CURRENT FILING DATE: 2005-04-11  
; PRIOR APPLICATION NUMBER: EP02022774.0  
; PRIOR FILING DATE: 2002-10-11  
; PRIOR APPLICATION NUMBER: PCT/EP2003/011190  
; PRIOR FILING DATE: 2003-10-09  
; NUMBER OF SEQ ID NOS: 44  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 26  
; LENGTH: 289  
; TYPE: PRT  
; ORGANISM: cat-11-bet v 1  
US-11-102-883-26

Query Match 75.6%; Score 34; DB 11; Length 289;  
Best Local Similarity 75.0%; Pred. No. 24;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DTEKLTN 8  
| | | | |  
Db 223 DTEKLTN 230

RESULT 17  
US-11-102-883-6  
; Sequence 6, Application US/11102883  
; Publication No. US20050281816A1  
; GENERAL INFORMATION:  
; APPLICANT: Lamping, Norbert  
; APPLICANT: Cramerli, Reto

```

; APPLICANT: Fluckiger, Sabina
; APPLICANT: Daigle, Isabelle
; TITLE OF INVENTION: Modular Antigen Transporter Molecules (MAT Molecules) for
; TITLE OF INVENTION: Modulating Immune Reactions, Associated Constructs, Methods and
; TITLE OF INVENTION: Uses Thereof
; FILE REFERENCE: 03100234pa
; CURRENT APPLICATION NUMBER: US/11/102,883
; CURRENT FILING DATE: 2005-04-11
; PRIOR APPLICATION NUMBER: EP02022774.0
; PRIOR FILING DATE: 2002-10-11
; PRIOR APPLICATION NUMBER: PCT/EP2003/011190
; PRIOR FILING DATE: 2003-10-09
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 6
; LENGTH: 300
; TYPE: PRT
; ORGANISM: Human immunodeficiency virus + Homo sapiens + Betula verrucosa
US-11-102-883-6
```

Query Match 75.6%; Score 34; DB 11; Length 300;

Best Local Similarity 75.0%; Pred. No. 25;

Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

```
Qy      1 DTLEKLTN 8
        |||:|:|
Db      234 DTLEKISN 241
```

## RESULT 18

US-10-530-253-19

Sequence 19, Application US/10530253

Publication No. US20060014926A1

GENERAL INFORMATION:

APPLICANT: Casasetti, Maria C.

APPLICANT: Smith, Larry

APPLICANT: Jeffrey K. Pullen

APPLICANT: Susan P. McElhinney

TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS

FILE REFERENCE: 00630/100M137-US2

CURRENT APPLICATION NUMBER: US/10/530,253

CURRENT FILING DATE: 2005-04-04

PRIOR APPLICATION NUMBER: PCT/US2003/031726

PRIOR FILING DATE: 2003-10-02

PRIOR APPLICATION NUMBER: US 60/415,929

PRIOR FILING DATE: 2002-10-03

NUMBER OF SEQ ID NOS: 65

SOFTWARE: PatentIn version 3.1

SEQ ID NO 19

LENGTH: 158

TYPE: PRT

ORGANISM: Human papillomavirus type 39

US-10-530-253-19

Query Match 71.1%; Score 32; DB 9; Length 158;

Best Local Similarity 75.0%; Pred. No. 30;

Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```
Qy      2 TLEKLTNT 9
        |||:|:|
Db      89 TLENTTNT 96
```

## RESULT 19

US-10-915-002-213

Sequence 213, Application US/10915002

Publication No. US20060078950A1

GENERAL INFORMATION:

APPLICANT: Prognulike-Fox, Ann

APPLICANT: Hallman, Jeffrey D.

APPLICANT: Handfield, Martin

TITLE OF INVENTION: IDENTIFICATION OF PORPHYROMONAS GINGIVALIS VIRULENCE POLYNUCLEOT

USE IN DIAGNOSIS ANTIGENS FOR USE IN THE DIAGNOSIS, TREATMENT, A

```

; TITLE OF INVENTION: PERIODONTAL DISEASES
; FILE REFERENCE: 02-042
; CURRENT APPLICATION NUMBER: US/10/915,002
; CURRENT FILING DATE: 2004-08-10
; NUMBER OF SEQ ID NOS: 354
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 213
; LENGTH: 326
; TYPE: PRT
; ORGANISM: Porphyromonas gingivalis
US-10-915-002-213
```

Query Match 71.1%; Score 32; DB 9; Length 326;

Best Local Similarity 66.7%; Pred. No. 70;

Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```
Qy      1 DTLEKLTNT 9
        |||:|:|
Db      131 DATEKLTQT 139
```

## RESULT 20

US-10-530-253-26

Sequence 26, Application US/10530253

Publication No. US20060014926A1

GENERAL INFORMATION:

APPLICANT: Casasetti, Maria C.

APPLICANT: Smith, Larry

APPLICANT: Jeffrey K. Pullen

APPLICANT: Susan P. McElhinney

TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS

FILE REFERENCE: 00630/100M137-US2

CURRENT APPLICATION NUMBER: US/10/530,253

CURRENT FILING DATE: 2005-04-04

PRIOR APPLICATION NUMBER: PCT/US2003/031726

PRIOR FILING DATE: 2003-10-02

PRIOR APPLICATION NUMBER: US 60/415,929

PRIOR FILING DATE: 2002-10-03

NUMBER OF SEQ ID NOS: 65

SOFTWARE: PatentIn version 3.1

SEQ ID NO 26

LENGTH: 158

TYPE: PRT

ORGANISM: Human papillomavirus type 68

US-10-530-253-26

Query Match 68.9%; Score 31; DB 9; Length 158;

Best Local Similarity 75.0%; Pred. No. 47;

Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```
Qy      2 TLEKLTNT 9
        |||:|:|
Db      89 TLENTTNT 96
```

## RESULT 21

US-11-054-515-1018

Sequence 1018, Application US/11054515

Publication No. US2005025532A1

GENERAL INFORMATION:

APPLICANT: Ruben et al.

TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys

FILE REFERENCE: PFS23P3

CURRENT APPLICATION NUMBER: US/11/054,515

CURRENT FILING DATE: 2005-02-10

PRIOR APPLICATION NUMBER: 60/543,296

PRIOR FILING DATE: 2004-02-11

PRIOR APPLICATION NUMBER: 60/580,347

PRIOR FILING DATE: 2004-06-18

PRIOR APPLICATION NUMBER: 10/293,418

PRIOR FILING DATE: 2002-11-14

PRIOR APPLICATION NUMBER: 60/331,469

PRIOR FILING DATE: 2001-11-16

```
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1018
; LENGTH: 247
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-1018
```

```
Query Match          68.9%; Score 31; DB 11; Length 247;
Best Local Similarity 75.0%; Pred. No. 80;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      2 TLEKLTNT 9
        | : |||||
Db       70 TADKLTNT 77
```

```
RESULT 22
US-11-054-515-1206
; Sequence 1206, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PF523P3
; CURRENT APPLICATION NUMBER: US/11/054,515
; CURRENT FILING DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/580,347
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1206
; LENGTH: 247
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-1206
```

```
Query Match          68.9%; Score 31; DB 11; Length 247;
Best Local Similarity 75.0%; Pred. No. 80;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      2 TLEKLTNT 9
        | : |||||
```

```
Db       70 TADKLTNT 77
```

```
RESULT 23
US-11-266-444-1018
; Sequence 1018, Application US/11266444
; Publication No. US2006062789A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulator
; FILE REFERENCE: PF523P1D1
; CURRENT APPLICATION NUMBER: US/11/266,444
; CURRENT FILING DATE: 2005-11-04
; PRIOR APPLICATION NUMBER: 09/880,746
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/212,210
; PRIOR FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 3239
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1018
; LENGTH: 247
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-266-444-1018
```

```
Query Match          68.9%; Score 31; DB 11; Length 247;
Best Local Similarity 75.0%; Pred. No. 80;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      2 TLEKLTNT 9
        | : |||||
Db       70 TADKLTNT 77
```

```
RESULT 24
US-11-266-444-1206
; Sequence 1206, Application US/11266444
; Publication No. US2006062789A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulator
; FILE REFERENCE: PF523P1D1
; CURRENT APPLICATION NUMBER: US/11/266,444
; CURRENT FILING DATE: 2005-11-04
; PRIOR APPLICATION NUMBER: 09/880,746
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/212,210
; PRIOR FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 3239
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1206
; LENGTH: 247
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-266-444-1206
```

```
Query Match          68.9%; Score 31; DB 11; Length 247;
```

Best Local Similarity 75.0%; Pred. No. 80;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9  
| : |||||  
Db 70 TADKLTNT 77

## RESULT 25

US-11-054-515-1009  
; Sequence 1009, Application US/11054515  
; Publication No. US20050255532A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys  
; FILE REFERENCE: PF523P3  
; CURRENT APPLICATION NUMBER: US/11/054,515  
; PRIOR FILING DATE: 2005-02-10  
; PRIOR APPLICATION NUMBER: 60/543,296  
; PRIOR FILING DATE: 2004-02-11  
; PRIOR APPLICATION NUMBER: 60/580,347  
; PRIOR FILING DATE: 2004-06-18  
; PRIOR APPLICATION NUMBER: 10/293,418  
; PRIOR FILING DATE: 2002-11-14  
; PRIOR APPLICATION NUMBER: 60/331,469  
; PRIOR FILING DATE: 2001-11-16  
; PRIOR APPLICATION NUMBER: 60/340,817  
; PRIOR FILING DATE: 2001-12-19  
; PRIOR APPLICATION NUMBER: 09/880,748  
; PRIOR FILING DATE: 2001-06-15  
; PRIOR APPLICATION NUMBER: 60/293,499  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/277,379  
; PRIOR FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: 60/276,248  
; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/240,816  
; PRIOR FILING DATE: 2000-10-17  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 3247  
; SEQ ID NO 1009  
; LENGTH: 249  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-054-515-1009

Query Match 68.9%; Score 31; DB 11; Length 249;

Best Local Similarity 75.0%; Pred. No. 81;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9  
| : |||||  
Db 70 TADKLTNT 77

## RESULT 26

US-11-054-515-1019  
; Sequence 1019, Application US/11054515  
; Publication No. US20050255532A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys  
; FILE REFERENCE: PF523P3  
; CURRENT APPLICATION NUMBER: US/11/054,515  
; PRIOR FILING DATE: 2005-02-10  
; PRIOR APPLICATION NUMBER: 60/543,296  
; PRIOR FILING DATE: 2004-02-11  
; PRIOR APPLICATION NUMBER: 60/580,347  
; PRIOR FILING DATE: 2004-06-18  
; PRIOR APPLICATION NUMBER: 10/293,418  
; PRIOR FILING DATE: 2002-11-14  
; PRIOR APPLICATION NUMBER: 60/331,469  
; PRIOR FILING DATE: 2001-11-16

; PRIOR APPLICATION NUMBER: 60/340,817  
; PRIOR FILING DATE: 2001-12-19  
; PRIOR APPLICATION NUMBER: 09/880,748  
; PRIOR FILING DATE: 2001-06-15  
; PRIOR APPLICATION NUMBER: 60/293,499  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/277,379  
; PRIOR FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: 60/276,248  
; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/240,816  
; PRIOR FILING DATE: 2000-10-17  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 3247  
; SEQ ID NO 1019  
; LENGTH: 249  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-054-515-1019

Query Match 68.9%; Score 31; DB 11; Length 249;

Best Local Similarity 75.0%; Pred. No. 81;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9  
| : |||||  
Db 70 TADKLTNT 77

## RESULT 27

US-11-054-515-1024  
; Sequence 1024, Application US/11054515  
; Publication No. US20050255532A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys  
; FILE REFERENCE: PF523P3  
; CURRENT APPLICATION NUMBER: US/11/054,515  
; PRIOR FILING DATE: 2005-02-10  
; PRIOR APPLICATION NUMBER: 60/543,296  
; PRIOR FILING DATE: 2004-02-11  
; PRIOR APPLICATION NUMBER: 60/580,347  
; PRIOR FILING DATE: 2004-06-18  
; PRIOR APPLICATION NUMBER: 10/293,418  
; PRIOR FILING DATE: 2002-11-14  
; PRIOR APPLICATION NUMBER: 60/331,469  
; PRIOR FILING DATE: 2001-11-16  
; PRIOR APPLICATION NUMBER: 60/340,817  
; PRIOR FILING DATE: 2001-12-19  
; PRIOR APPLICATION NUMBER: 09/880,748  
; PRIOR FILING DATE: 2001-06-15  
; PRIOR APPLICATION NUMBER: 60/293,499  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/277,379  
; PRIOR FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: 60/276,248  
; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/240,816  
; PRIOR FILING DATE: 2000-10-17  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 3247  
; SEQ ID NO 1024  
; LENGTH: 249  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-054-515-1024

Query Match 68.9%; Score 31; DB 11; Length 249;

Best Local Similarity 75.0%; Pred. No. 81;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9  
| : |||||



Db 70 TADKLTNT 77

RESULT 28  
US-11-054-515-1123  
; Sequence 1123, Application US/11054515  
; Publication No. US20050255532A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys  
; FILE REFERENCE: PF523P3  
; CURRENT APPLICATION NUMBER: US/11/054,515  
; CURRENT FILING DATE: 2005-02-10  
; PRIOR APPLICATION NUMBER: 60/543,296  
; PRIOR FILING DATE: 2004-02-11  
; PRIOR APPLICATION NUMBER: 60/580,347  
; PRIOR FILING DATE: 2004-06-18  
; PRIOR APPLICATION NUMBER: 10/293,418  
; PRIOR FILING DATE: 2002-11-14  
; PRIOR APPLICATION NUMBER: 60/331,469  
; PRIOR FILING DATE: 2001-11-16  
; PRIOR APPLICATION NUMBER: 60/340,817  
; PRIOR FILING DATE: 2001-12-19  
; PRIOR APPLICATION NUMBER: 09/880,748  
; PRIOR FILING DATE: 2001-06-15  
; PRIOR APPLICATION NUMBER: 60/293,499  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/277,379  
; PRIOR FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: 60/276,248  
; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/240,816  
; PRIOR FILING DATE: 2000-10-17  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 3247  
; SEQ ID NO 1123  
; LENGTH: 249  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-054-515-1123

Query Match 68.9%; Score 31; DB 11; Length 249;  
Best Local Similarity 75.0%; Pred. No. 81;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 TLEKLTNT 9  
|:|||||  
Db 70 TADKLTNT 77

RESULT 29  
US-11-054-515-1202  
; Sequence 1202, Application US/11054515  
; Publication No. US20050255532A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys  
; FILE REFERENCE: PF523P3  
; CURRENT APPLICATION NUMBER: US/11/054,515  
; CURRENT FILING DATE: 2005-02-10  
; PRIOR APPLICATION NUMBER: 60/543,296  
; PRIOR FILING DATE: 2004-02-11  
; PRIOR APPLICATION NUMBER: 60/580,347  
; PRIOR FILING DATE: 2004-06-18  
; PRIOR APPLICATION NUMBER: 10/293,418  
; PRIOR FILING DATE: 2002-11-14  
; PRIOR APPLICATION NUMBER: 60/331,469  
; PRIOR FILING DATE: 2001-11-16  
; PRIOR APPLICATION NUMBER: 60/340,817  
; PRIOR FILING DATE: 2001-12-19  
; PRIOR APPLICATION NUMBER: 09/880,748  
; PRIOR FILING DATE: 2001-06-15  
; PRIOR APPLICATION NUMBER: 60/293,499  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/277,379  
; PRIOR FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: 60/276,248  
; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/240,816  
; PRIOR FILING DATE: 2000-10-17  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 3247  
; SEQ ID NO 1377  
; LENGTH: 249  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-054-515-1377

PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/277,379  
; PRIOR FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: 60/276,248  
; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/240,816  
; PRIOR FILING DATE: 2000-10-17  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 3247  
; SEQ ID NO 1202  
; LENGTH: 249  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-054-515-1202

Query Match 68.9%; Score 31; DB 11; Length 249;  
Best Local Similarity 75.0%; Pred. No. 81;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 TLEKLTNT 9  
|:|||||  
Db 70 TADKLTNT 77

RESULT 30  
US-11-054-515-1377  
; Sequence 1377, Application US/11054515  
; Publication No. US20050255532A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys  
; FILE REFERENCE: PF523P3  
; CURRENT APPLICATION NUMBER: US/11/054,515  
; CURRENT FILING DATE: 2005-02-10  
; PRIOR APPLICATION NUMBER: 60/543,296  
; PRIOR FILING DATE: 2004-02-11  
; PRIOR APPLICATION NUMBER: 60/580,347  
; PRIOR FILING DATE: 2004-06-18  
; PRIOR APPLICATION NUMBER: 10/293,418  
; PRIOR FILING DATE: 2002-11-14  
; PRIOR APPLICATION NUMBER: 60/331,469  
; PRIOR FILING DATE: 2001-11-16  
; PRIOR APPLICATION NUMBER: 60/340,817  
; PRIOR FILING DATE: 2001-12-19  
; PRIOR APPLICATION NUMBER: 09/880,748  
; PRIOR FILING DATE: 2001-06-15  
; PRIOR APPLICATION NUMBER: 60/293,499  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/277,379  
; PRIOR FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: 60/276,248  
; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/240,816  
; PRIOR FILING DATE: 2000-10-17  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 3247  
; SEQ ID NO 1377  
; LENGTH: 249  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-054-515-1377

Query Match 68.9%; Score 31; DB 11; Length 249;  
Best Local Similarity 75.0%; Pred. No. 81;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 TLEKLTNT 9  
|:|||||  
Db 70 TADKLTNT 77

RESULT 31  
US-11-054-515-1570

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Sequence 1570, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PF523P3
; CURRENT APPLICATION NUMBER: US/11/054,515
; PRIOR FILING DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/580,347
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1570
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-1570

Query Match      68.9%; Score 31; DB 11; Length 249;
Best Local Similarity 75.0%; Pred. No. 81;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy      2 TLEKLTNT 9
      | : |||||
Db      70 TADKLTNT 77

RESULT 32
US-11-054-515-1571
; Sequence 1571, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PF523P3
; CURRENT APPLICATION NUMBER: US/11/054,515
; PRIOR FILING DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/580,347
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
```

```
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1571
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-1571

Query Match      68.9%; Score 31; DB 11; Length 249;
Best Local Similarity 75.0%; Pred. No. 81;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy      2 TLEKLTNT 9
      | : |||||
Db      70 TADKLTNT 77

RESULT 33
US-11-054-515-1572
; Sequence 1572, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PF523P3
; CURRENT APPLICATION NUMBER: US/11/054,515
; PRIOR FILING DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/580,347
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1572
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-1572

Query Match      68.9%; Score 31; DB 11; Length 249;
Best Local Similarity 75.0%; Pred. No. 81;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy      2 TLEKLTNT 9
      | : |||||
Db      70 TADKLTNT 77

RESULT 34
US-11-054-515-1573
; Sequence 1573, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
```

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FILE REFERENCE: PF523P3
CURRENT APPLICATION NUMBER: US/11/054,515
CURRENT FILING DATE: 2005-02-10
PRIOR APPLICATION NUMBER: 60/543,296
PRIOR FILING DATE: 2004-02-11
PRIOR APPLICATION NUMBER: 60/580,347
PRIOR FILING DATE: 2004-06-18
PRIOR APPLICATION NUMBER: 10/293,418
PRIOR FILING DATE: 2002-11-14
PRIOR APPLICATION NUMBER: 60/331,469
PRIOR FILING DATE: 2001-11-16
PRIOR APPLICATION NUMBER: 60/340,817
PRIOR FILING DATE: 2001-12-19
PRIOR APPLICATION NUMBER: 09/880,748
PRIOR FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 3247
SEQ ID NO 1573
LENGTH: 249
TYPE: PRT
ORGANISM: Homo sapiens
US-11-054-515-1573

Query Match      68.9%; Score 31; DB 11; Length 249;
Best Local Similarity 75.0%; Pred. No. 81;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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```
2 TLEKLTNT 9
|:|||||
Db 70 TADKLTNT 77

RESULT 36
US-11-266-444-1019
Sequence 1019, Application US/11266444
Publication No. US20060062789A1
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulatc
FILE REFERENCE: PF523P1D1
CURRENT APPLICATION NUMBER: US/11/266,444
CURRENT FILING DATE: 2005-11-04
PRIOR APPLICATION NUMBER: 09/880,746
PRIOR FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-16
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1024
LENGTH: 249
TYPE: PRT
ORGANISM: Homo sapiens
US-11-266-444-1019

Query Match      68.9%; Score 31; DB 11; Length 249;
Best Local Similarity 75.0%; Pred. No. 81;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
2 TLEKLTNT 9
|:|||||
Db 70 TADKLTNT 77

RESULT 37
US-11-266-444-1024
Sequence 1024, Application US/11266444
Publication No. US20060062789A1
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulatc
FILE REFERENCE: PF523P1D1
CURRENT APPLICATION NUMBER: US/11/266,444
CURRENT FILING DATE: 2005-11-04
PRIOR APPLICATION NUMBER: 09/880,746
PRIOR FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-16
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1024
LENGTH: 249
TYPE: PRT
ORGANISM: Homo sapiens
US-11-266-444-1024
```

US-11-266-444-1024

Query Match 68.9%; Score 31; DB 11; Length 249;  
Best Local Similarity 75.0%; Pred. No. 81;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9  
|:|||||  
Db 70 TADKLTNT 77

RESULT 38  
US-11-266-444-1123

; Sequence 1123, Application US/11266444  
; Publication No. US2006062789A1  
; GENERAL INFORMATION:

; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulat

; FILE REFERENCE: PF523P1D1  
; CURRENT APPLICATION NUMBER: US/11/266,444

; CURRENT FILING DATE: 2005-11-04  
; PRIOR APPLICATION NUMBER: 09/880,746

; PRIOR FILING DATE: 2001-06-15  
; PRIOR APPLICATION NUMBER: 60/212,210

; PRIOR FILING DATE: 2000-06-16  
; PRIOR APPLICATION NUMBER: 60/240,816

; PRIOR FILING DATE: 2000-10-17  
; PRIOR APPLICATION NUMBER: 60/276,248

; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/277,379

; PRIOR FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: 60/293,499

; PRIOR FILING DATE: 2001-05-25  
; NUMBER OF SEQ ID NOS: 3239

; SOFTWARE: Patentn Ver. 2.0  
; SEQ ID NO 1123

; LENGTH: 249  
; TYPE: PRT

; ORGANISM: Homo sapiens  
US-11-266-444-1123

Query Match 68.9%; Score 31; DB 11; Length 249;  
Best Local Similarity 75.0%; Pred. No. 81;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9  
|:|||||  
Db 70 TADKLTNT 77

RESULT 39  
US-11-266-444-1202

; Sequence 1202, Application US/11266444  
; Publication No. US2006062789A1  
; GENERAL INFORMATION:

; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulat

; FILE REFERENCE: PF523P1D1  
; CURRENT APPLICATION NUMBER: US/11/266,444

; CURRENT FILING DATE: 2005-11-04  
; PRIOR APPLICATION NUMBER: 09/880,746

; PRIOR FILING DATE: 2001-06-15  
; PRIOR APPLICATION NUMBER: 60/212,210

; PRIOR FILING DATE: 2000-06-16  
; PRIOR APPLICATION NUMBER: 60/240,816

; PRIOR FILING DATE: 2000-10-17  
; PRIOR APPLICATION NUMBER: 60/276,248

; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/277,379

; PRIOR FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: 60/293,499

; PRIOR FILING DATE: 2001-05-25  
; NUMBER OF SEQ ID NOS: 3239

; SOFTWARE: Patentn Ver. 2.0

; SEQ ID NO 1202  
; LENGTH: 249

; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-266-444-1202

Query Match 68.9%; Score 31; DB 11; Length 249;  
Best Local Similarity 75.0%; Pred. No. 81;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9  
|:|||||  
Db 70 TADKLTNT 77

RESULT 40  
US-11-266-444-1377

; Sequence 1377, Application US/11266444  
; Publication No. US2006062789A1  
; GENERAL INFORMATION:

; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulat

; FILE REFERENCE: PF523P1D1  
; CURRENT APPLICATION NUMBER: US/11/266,444

; CURRENT FILING DATE: 2005-11-04  
; PRIOR APPLICATION NUMBER: 09/880,746

; PRIOR FILING DATE: 2001-06-15  
; PRIOR APPLICATION NUMBER: 60/212,210

; PRIOR FILING DATE: 2000-06-16  
; PRIOR APPLICATION NUMBER: 60/240,816

; PRIOR FILING DATE: 2000-10-17  
; PRIOR APPLICATION NUMBER: 60/276,248

; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/277,379

; PRIOR FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: 60/293,499

; PRIOR FILING DATE: 2001-05-25  
; NUMBER OF SEQ ID NOS: 3239

; SOFTWARE: Patentn Ver. 2.0  
; SEQ ID NO 1377

; LENGTH: 249  
; TYPE: PRT

; ORGANISM: Homo sapiens  
US-11-266-444-1377

Query Match 68.9%; Score 31; DB 11; Length 249;  
Best Local Similarity 75.0%; Pred. No. 81;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9  
|:|||||  
Db 70 TADKLTNT 77

RESULT 41  
US-11-266-444-1570

; Sequence 1570, Application US/11266444  
; Publication No. US2006062789A1  
; GENERAL INFORMATION:

; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulat

; FILE REFERENCE: PF523P1D1  
; CURRENT APPLICATION NUMBER: US/11/266,444

; CURRENT FILING DATE: 2005-11-04  
; PRIOR APPLICATION NUMBER: 09/880,746

; PRIOR FILING DATE: 2001-06-15  
; PRIOR APPLICATION NUMBER: 60/212,210

; PRIOR FILING DATE: 2000-06-16  
; PRIOR APPLICATION NUMBER: 60/240,816

; PRIOR FILING DATE: 2000-10-17  
; PRIOR APPLICATION NUMBER: 60/276,248

; PRIOR FILING DATE: 2001-03-16

;; PRIOR APPLICATION NUMBER: 60/277,379  
;; PRIOR FILING DATE: 2001-03-21  
;; PRIOR APPLICATION NUMBER: 60/293,499  
;; PRIOR FILING DATE: 2001-05-25  
;; NUMBER OF SEQ ID NOS: 3239  
;; SOFTWARE: PatentIn Ver. 2.0  
;; SEQ ID NO: 1570  
;; LENGTH: 249  
;; TYPE: PRT  
;; ORGANISM: Homo sapiens  
US-11-266-444-1570

Query Match 68.9%; Score 31; DB 11; Length 249;  
Best Local Similarity 75.0%; Pred. No. 81;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9  
|:|||||  
Db 70 TADKLTNT 77

RESULT 42  
US-11-266-444-1571  
; Sequence 1571, Application US/11266444  
; Publication No. US20060062789A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulato  
; FILE REFERENCE: PF523P1D1  
; CURRENT APPLICATION NUMBER: US/11/266,444  
; PRIOR FILING DATE: 2005-11-04  
; PRIOR APPLICATION NUMBER: 09/880,746  
; PRIOR FILING DATE: 2001-06-15  
; PRIOR APPLICATION NUMBER: 60/212,210  
; PRIOR FILING DATE: 2000-06-16  
; PRIOR APPLICATION NUMBER: 60/240,816  
; PRIOR FILING DATE: 2000-10-17  
; PRIOR APPLICATION NUMBER: 60/276,248  
; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/277,379  
; PRIOR FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: 60/293,499  
; PRIOR FILING DATE: 2001-05-25  
; NUMBER OF SEQ ID NOS: 3239  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO: 1571  
; LENGTH: 249  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-266-444-1571

Query Match 68.9%; Score 31; DB 11; Length 249;  
Best Local Similarity 75.0%; Pred. No. 81;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9  
|:|||||  
Db 70 TADKLTNT 77

RESULT 43  
US-11-266-444-1572  
; Sequence 1572, Application US/11266444  
; Publication No. US20060062789A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulato  
; FILE REFERENCE: PF523P1D1  
; CURRENT APPLICATION NUMBER: US/11/266,444  
; PRIOR FILING DATE: 2005-11-04  
; PRIOR APPLICATION NUMBER: 09/880,746  
; PRIOR FILING DATE: 2001-06-15  
; PRIOR APPLICATION NUMBER: 60/212,210

;; PRIOR FILING DATE: 2000-06-16  
;; PRIOR APPLICATION NUMBER: 60/240,816  
;; PRIOR FILING DATE: 2000-10-17  
;; PRIOR APPLICATION NUMBER: 60/276,248  
;; PRIOR FILING DATE: 2001-03-16  
;; PRIOR APPLICATION NUMBER: 60/277,379  
;; PRIOR FILING DATE: 2001-03-21  
;; PRIOR APPLICATION NUMBER: 60/293,499  
;; PRIOR FILING DATE: 2001-05-25  
;; NUMBER OF SEQ ID NOS: 3239  
;; SOFTWARE: PatentIn Ver. 2.0  
;; SEQ ID NO: 1572  
;; LENGTH: 249  
;; TYPE: PRT  
;; ORGANISM: Homo sapiens  
US-11-266-444-1572

Query Match 68.9%; Score 31; DB 11; Length 249;  
Best Local Similarity 75.0%; Pred. No. 81;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9  
|:|||||  
Db 70 TADKLTNT 77

RESULT 44  
US-11-266-444-1573  
; Sequence 1573, Application US/11266444  
; Publication No. US20060062789A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulato  
; FILE REFERENCE: PF523P1D1  
; CURRENT APPLICATION NUMBER: US/11/266,444  
; PRIOR FILING DATE: 2005-11-04  
; PRIOR APPLICATION NUMBER: 09/880,746  
; PRIOR FILING DATE: 2001-06-15  
; PRIOR APPLICATION NUMBER: 60/212,210  
; PRIOR FILING DATE: 2000-06-16  
; PRIOR APPLICATION NUMBER: 60/240,816  
; PRIOR FILING DATE: 2000-10-17  
; PRIOR APPLICATION NUMBER: 60/276,248  
; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/277,379  
; PRIOR FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: 60/293,499  
; PRIOR FILING DATE: 2001-05-25  
; NUMBER OF SEQ ID NOS: 3239  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO: 1573  
; LENGTH: 249  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-266-444-1573

Query Match 68.9%; Score 31; DB 11; Length 249;  
Best Local Similarity 75.0%; Pred. No. 81;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9  
|:|||||  
Db 70 TADKLTNT 77

RESULT 45  
US-11-054-515-1014  
; Sequence 1014, Application US/11054515  
; Publication No. US20050255532A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys  
; FILE REFERENCE: PF523P3

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; CURRENT APPLICATION NUMBER: US/11/054,515
; CURRENT FILING DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/580,347
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1014
; LENGTH: 250
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-1014

Query Match
Best Local Similarity 68.9%; Score 31; DB 11; Length 250;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9
| : |||||
Db 70 TADKLTNT 77

RESULT 46
US-11-054-515-1159
; Sequence 1159, Application US/11/054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PF523P3
; CURRENT APPLICATION NUMBER: US/11/054,515
; CURRENT FILING DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/580,347
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1159
; LENGTH: 250
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-1159
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-1159

Query Match
Best Local Similarity 68.9%; Score 31; DB 11; Length 250;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9
| : |||||
Db 70 TADKLTNT 77

RESULT 47
US-11-054-515-1168
; Sequence 1168, Application US/11/054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PF523P3
; CURRENT APPLICATION NUMBER: US/11/054,515
; CURRENT FILING DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/580,347
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1168
; LENGTH: 250
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-1168

Query Match
Best Local Similarity 75.0%; Score 31; DB 11; Length 250;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9
| : |||||
Db 70 TADKLTNT 77

RESULT 48
US-11-054-515-1212
; Sequence 1212, Application US/11/054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PF523P3
; CURRENT APPLICATION NUMBER: US/11/054,515
; CURRENT FILING DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/580,347
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; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1212
; LENGTH: 250
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-1212
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Query Match      68.9%; Score 31; DB 11; Length 250;
Best Local Similarity 75.0%; Pred. No. 81;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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Qy      2 TLEKLTNT 9
      | : |||||
Db      70 TADKLTNT 77
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RESULT 49
US-11-054-515-1535
; Sequence 1535, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PF523P3
; CURRENT APPLICATION NUMBER: US/11/054,515
; CURRENT FILING DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/580,347
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1535
; LENGTH: 250
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-1535
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Query Match      68.9%; Score 31; DB 11; Length 250;
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Best Local Similarity 75.0%; Pred. No. 81;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy      2 TLEKLTNT 9
      | : |||||
Db      70 TADKLTNT 77
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RESULT 50
US-11-054-515-1540
; Sequence 1540, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PF523P3
; CURRENT APPLICATION NUMBER: US/11/054,515
; CURRENT FILING DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/580,347
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1540
; LENGTH: 250
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-1540
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Query Match      68.9%; Score 31; DB 11; Length 250;
Best Local Similarity 75.0%; Pred. No. 81;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy      2 TLEKLTNT 9
      | : |||||
Db      70 TADKLTNT 77
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OM protein - protein search, using SW model

Run on: May 5, 2006, 05:36:41 ; Search time 20.9 Seconds  
(without alignments)  
35.602 Million cell updates/sec

Title: US-08-170-344-29  
Perfect score: 47  
Sequence: 1 LTNGLYML 9

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

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3: /cgn2\_6/ptodata/1/1aa/H-COMB.pep:\*  
4: /cgn2\_6/ptodata/1/1aa/PCITUS-COMB.pep:\*  
5: /cgn2\_6/ptodata/1/1aa/RE-COMB.pep:\*  
6: /cgn2\_6/ptodata/1/1aa/backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

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1	47	100.0	158	1 US-08-247-904B-10	Sequence 10, App1
2	47	100.0	158	2 US-08-767-942A-19	Sequence 19, App1
3	47	100.0	271	1 US-08-117-083-14	Sequence 14, App1
4	47	100.0	278	2 US-09-485-885-21	Sequence 21, App1
5	47	100.0	383	2 US-09-485-885-23	Sequence 23, App1
6	37	78.7	11	2 US-08-159-339A-1173	Sequence 1173, Ap
7	37	78.7	859	2 US-09-902-540-14220	Sequence 14220, A
8	35	74.5	209	2 US-09-248-796A-28163	Sequence 28163, A
9	35	74.5	329	2 US-09-902-540-11517	Sequence 11517, A
10	35	74.5	818	2 US-09-248-796A-18342	Sequence 18342, A
11	34	72.3	67	2 US-09-248-796A-19484	Sequence 19484, A
12	34	72.3	258	2 US-10-104-047-3590	Sequence 3590, Ap
13	34	72.3	736	2 US-09-949-016-8076	Sequence 8076, Ap
14	34	72.3	773	2 US-09-079-030-215	Sequence 215, App
15	34	72.3	886	2 US-09-079-030-216	Sequence 216, App
16	34	72.3	856	2 US-10-281-867-2	Sequence 2, App1
17	33	70.2	245	2 US-09-949-016-7193	Sequence 7193, Ap
18	33	70.2	263	2 US-09-543-681A-5138	Sequence 5138, Ap
19	33	70.2	510	1 US-08-249-112-3	Sequence 3, App1
20	33	70.2	510	4 PCT-US95-06556-3	Sequence 3, App1
21	33	70.2	534	2 US-09-270-767-48833	Sequence 48833, A
22	33	70.2	567	1 US-08-841-483-2	Sequence 2, App1
23	33	70.2	567	2 US-09-382-911-2	Sequence 2, App1
24	33	70.2	632	2 US-09-949-016-6844	Sequence 6844, Ap
25	33	70.2	789	2 US-09-252-991A-27011	Sequence 27011, A
26	33	70.2	943	2 US-09-056-556-204	Sequence 204, App
27	33	70.2	943	2 US-09-072-596-199	Sequence 199, App

28	33	70.2	943	2 US-09-477-135A-131	Sequence 131, App
29	33	70.2	943	2 US-09-072-967-204	Sequence 204, App
30	33	70.2	943	2 US-10-193-002-199	Sequence 199, App
31	33	70.2	943	2 US-10-084-843-204	Sequence 204, App
32	33	70.2	1233	2 US-09-252-991A-23237	Sequence 23237, A
33	32	68.1	92	2 US-08-993-359-32	Sequence 32, App1
34	32	68.1	92	2 US-09-482-558A-32	Sequence 32, App1
35	32	68.1	157	2 US-09-270-767-54075	Sequence 3858, A
36	32	68.1	157	2 US-09-902-540-10343	Sequence 54075, A
37	32	68.1	194	2 US-08-549-515-7	Sequence 10343, A
38	32	68.1	279	2 US-10-101-464A-717	Sequence 717, App
39	32	68.1	304	2 US-09-015-296-3	Sequence 3, App1
40	32	68.1	512	2 US-09-593-722-3	Sequence 3, App1
41	32	68.1	512	2 US-09-248-796A-19403	Sequence 19403, A
42	32	68.1	631	2 US-09-747-259-18	Sequence 18, App1
43	32	68.1	728	2 US-09-816-744-18	Sequence 18, App1
44	32	68.1	728	2 US-10-104-047-3399	Sequence 3399, Ap
45	32	68.1	802	2 US-09-661-322A-30	Sequence 30, App1
46	32	68.1	1032	2 US-09-733-643B-16	Sequence 16, App1
47	32	68.1	1032	2 US-09-001-982-10	Sequence 10, App1
48	32	68.1	1156	2 US-09-002-285-70	Sequence 70, App1
49	32	68.1	1156	2 US-09-589-477-70	Sequence 70, App1
50	32	68.1	1156	2 US-10-099-285A-70	Sequence 70, App1
51	32	68.1	1156	2 US-09-668-650-10	Sequence 10, App1
52	32	68.1	1156	2 US-09-001-982-12	Sequence 12, App1
53	32	68.1	1242	2 US-09-668-650-12	Sequence 12, App1
54	32	68.1	1242	2 US-09-248-796A-26314	Sequence 26314, A
55	31	66.0	71	2 US-09-270-767-59423	Sequence 59423, A
56	31	66.0	74	2 US-09-583-110-4771	Sequence 4771, Ap
57	31	66.0	141	2 US-09-125-635-2	Sequence 2, App1
58	31	66.0	186	2 US-09-120-426-4	Sequence 4, App1
59	31	66.0	223	2 US-08-961-083-14	Sequence 124, App
60	31	66.0	283	2 US-09-536-784-124	Sequence 124, App
61	31	66.0	283	2 US-09-765-271-124	Sequence 124, App
62	31	66.0	283	2 US-09-765-272A-124	Sequence 124, App
63	31	66.0	284	2 US-09-270-767-44014	Sequence 44014, A
64	31	66.0	286	2 US-09-710-279-2192	Sequence 2192, Ap
65	31	66.0	307	2 US-09-134-001C-5144	Sequence 5144, Ap
66	31	66.0	309	2 US-09-489-035A-7557	Sequence 7557, Ap
67	31	66.0	311	2 US-09-270-767-46413	Sequence 46413, A
68	31	66.0	335	2 US-08-987-146-2	Sequence 2, App1
69	31	66.0	361	2 US-09-248-796A-16547	Sequence 16547, A
70	31	66.0	419	2 US-09-120-426-2	Sequence 2, App1
71	31	66.0	419	2 US-09-583-110-3201	Sequence 3201, Ap
72	31	66.0	420	2 US-09-107-433-5132	Sequence 5132, Ap
73	31	66.0	681	2 US-09-252-991A-28831	Sequence 28831, A
74	31	66.0	681	2 US-09-902-540-10624	Sequence 10624, A
75	31	66.0	694	2 US-09-270-767-46146	Sequence 46146, A
76	31	66.0	804	2 US-09-949-016-7757	Sequence 7757, Ap
77	31	66.0	998	2 US-09-949-016-7757	Sequence 10852, A
78	31	66.0	1202	2 US-09-949-016-10852	Sequence 3716, App
79	31	66.0	1335	2 US-09-134-001C-3716	Sequence 4, App1
80	31	66.0	1404	2 US-08-801-308-1	Sequence 1, App1
81	31	66.0	1420	2 US-09-125-635-4	Sequence 4, App1
82	30	63.8	105	2 US-09-248-796A-27512	Sequence 27512, A
83	30	63.8	143	2 US-09-134-001C-4711	Sequence 4711, Ap
84	30	63.8	205	2 US-09-248-796A-21389	Sequence 21389, A
85	30	63.8	293	2 US-09-720-318A-2	Sequence 2, App1
86	30	63.8	311	2 US-09-413-231-18	Sequence 18, App1
87	30	63.8	311	2 US-10-237-060-1	Sequence 1, App1
88	30	63.8	325	2 US-09-248-796A-17873	Sequence 17873, A
89	30	63.8	327	2 US-09-248-796A-16112	Sequence 16112, A
90	30	63.8	328	2 US-09-583-110-3399	Sequence 3399, Ap
91	30	63.8	334	2 US-09-107-433-4097	Sequence 4097, App
92	30	63.8	352	2 US-09-482-273-243	Sequence 243, App
93	30	63.8	363	2 US-09-248-796A-16633	Sequence 16633, A
94	30	63.8	387	1 US-08-290-448A-72	Sequence 72, App1
95	30	63.8	387	1 US-08-290-448A-72	Sequence 72, App1
96	30	63.8	387	1 US-08-175-069A-72	Sequence 72, App1
97	30	63.8	387	1 US-08-461-938B-72	Sequence 72, App1
98	30	63.8	390	2 US-08-464-000-72	Sequence 72, App1
99	30	63.8	390	2 US-09-489-039A-13547	Sequence 13547, A
100	30	63.8	410	2 US-09-684-855-143	Sequence 143, App

101	30	63.8	420	2	US-09-684-855-120	Sequence 120, App	174	29	61.7	351	2	US-10-324-316-2	Sequence 2, Appli
102	30	63.8	420	2	US-09-488-265B-19	Sequence 19, Appl	175	29	61.7	355	2	US-09-543-661A-7326	Sequence 7326, Ap
103	30	63.8	443	2	US-08-993-359-30	Sequence 30, Appl	176	29	61.7	359	2	US-09-270-767-11909	Sequence 41909, Ap
104	30	63.8	443	2	US-09-273-871A-5	Sequence 5, Appli	177	29	61.7	382	2	US-09-540-236-1108	Sequence 3108, Ap
105	30	63.8	443	2	US-09-482-558A-30	Sequence 30, Appl	178	29	61.7	398	2	US-09-603-208A-256	Sequence 256, App
106	30	63.8	443	2	US-10-083-452-5	Sequence 5, Appli	179	29	61.7	410	2	US-09-540-236-1840	Sequence 3840, Ap
107	30	63.8	445	2	US-09-610-199-5	Sequence 5, Appli	180	29	61.7	413	2	US-09-248-796A-20607	Sequence 20607, A
108	30	63.8	482	2	US-09-328-352-7462	Sequence 7462, Ap	181	29	61.7	431	2	US-09-270-767-12950	Sequence 42950, A
109	30	63.8	486	2	US-08-746-559A-5	Sequence 5, Appli	182	29	61.7	432	1	US-08-896-005-4	Sequence 4, Appli
110	30	63.8	492	2	US-09-949-016-8352	Sequence 8352, Ap	183	29	61.7	432	1	US-08-896-005-5	Sequence 5, Appli
111	30	63.8	516	2	US-08-746-559A-4	Sequence 4, Appli	184	29	61.7	432	1	US-09-347-878-1	Sequence 1, Appli
112	30	63.8	525	1	US-08-077-939-15	Sequence 15, Appl	185	29	61.7	432	2	US-09-546-013-3	Sequence 3, Appli
113	30	63.8	525	1	US-08-077-939-17	Sequence 17, Appl	186	29	61.7	447	2	US-09-949-016-10359	Sequence 10359, A
114	30	63.8	525	1	US-08-461-599-15	Sequence 15, Appl	187	29	61.7	448	2	US-09-540-236-1800	Sequence 3800, Ap
115	30	63.8	525	1	US-08-461-599-17	Sequence 17, Appl	188	29	61.7	455	2	US-09-362-831-5	Sequence 8, App
116	30	63.8	525	1	US-08-461-621-15	Sequence 15, Appl	189	29	61.7	476	2	US-10-376-397B-2	Sequence 5, Appli
117	30	63.8	525	1	US-08-461-621-17	Sequence 17, Appl	190	29	61.7	480	2	US-09-111-482-2	Sequence 2, Appli
118	30	63.8	525	1	US-08-465-334-15	Sequence 15, Appl	191	29	61.7	496	2	US-08-740-223A-15	Sequence 15, Appl
119	30	63.8	525	1	US-08-465-334-17	Sequence 17, Appl	192	29	61.7	496	2	US-09-202-491-7	Sequence 7, Appli
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121	30	63.8	531	1	US-07-862-588B-7	Sequence 7, Appli	194	29	61.7	496	2	US-10-225-060-15	Sequence 15, Appl
122	30	63.8	551	1	US-09-033-537A-1	Sequence 1, Appli	195	29	61.7	496	2	US-10-215-224-7	Sequence 7, Appli
123	30	63.8	575	2	US-09-482-273-159	Sequence 159, App	196	29	61.7	496	2	US-10-214-812-7	Sequence 7, Appli
124	30	63.8	612	2	US-09-248-796A-24557	Sequence 24557, A	197	29	61.7	497	2	US-09-538-092-473	Sequence 473, App
125	30	63.8	617	2	US-09-248-796A-17876	Sequence 17876, A	198	29	61.7	527	2	US-09-028-366-2	Sequence 2, Appli
126	30	63.8	638	2	US-09-948-016-9984	Sequence 245, App	199	29	61.7	527	2	US-09-028-366-3	Sequence 3, Appli
127	30	63.8	638	2	US-09-948-016-9984	Sequence 9984, Ap	200	29	61.7	527	2	US-09-715-285-2	Sequence 2, Appli
128	30	63.8	693	2	US-09-999-833A-483	Sequence 483, App	201	29	61.7	527	2	US-09-715-285-3	Sequence 3, Appli
129	30	63.8	734	2	US-10-020-445A-483	Sequence 483, App	202	29	61.7	534	2	US-09-134-000C-4924	Sequence 4924, Ap
130	30	63.8	734	2	US-09-894-998A-26	Sequence 26, Appl	203	29	61.7	540	2	US-08-687-080B-7	Sequence 7, Appli
131	30	63.8	734	2	US-10-237-551-26	Sequence 26, Appl	204	29	61.7	544	2	US-09-603-208A-254	Sequence 254, App
132	30	63.8	823	1	US-08-261-465-1	Sequence 1, Appli	205	29	61.7	545	2	US-09-248-796A-15777	Sequence 15777, A
133	30	63.8	823	1	US-08-405-254-5	Sequence 5, Appli	206	29	61.7	585	2	US-09-328-352-6133	Sequence 6133, Ap
134	30	63.8	1367	1	US-08-248-687C-2	Sequence 2, Appli	207	29	61.7	627	2	US-09-252-991A-31696	Sequence 31696, A
135	30	63.8	1367	1	US-08-625-819-2	Sequence 2, Appli	208	29	61.7	640	2	US-09-627-976-16	Sequence 16, Appl
136	30	63.8	1367	2	US-08-746-559A-2	Sequence 2, Appli	209	29	61.7	640	2	US-10-047-676B-16	Sequence 16, Appl
137	30	63.8	1367	2	US-08-864-641B-18	Sequence 18, Appl	210	29	61.7	643	2	US-09-178-252-25	Sequence 25, Appl
138	30	63.8	1367	2	US-09-343-551-2	Sequence 2, Appli	211	29	61.7	643	2	US-09-826-660-25	Sequence 25, Appl
139	30	63.8	1377	2	US-09-948-001-18	Sequence 18, Appl	212	29	61.7	651	2	US-09-543-681A-8284	Sequence 8284, Ap
140	30	63.8	1377	2	US-09-948-001-21	Sequence 21, Appl	213	29	61.7	653	2	US-09-661-322A-6	Sequence 6, Appli
141	30	63.8	2509	2	US-09-252-991A-16642	Sequence 16642, A	214	29	61.7	656	1	US-08-444-005-15	Sequence 15, Appl
142	30	63.8	2636	2	US-09-252-991A-25753	Sequence 25753, A	215	29	61.7	656	2	US-09-069-023-28	Sequence 28, Appl
143	30	63.8	2887	2	US-08-462-467B-8	Sequence 8, Appli	216	29	61.7	656	2	US-09-345-473B-30	Sequence 30, Appl
144	30	63.8	4126	2	US-09-953-096-4	Sequence 4, Appli	217	29	61.7	656	2	US-09-862-027-30	Sequence 30, Appl
145	30	63.8	5518	2	US-09-953-096-2	Sequence 2, Appli	218	29	61.7	689	1	US-07-766-351-5	Sequence 5, Appli
146	29	61.7	57	2	US-09-270-767-60835	Sequence 40835, A	219	29	61.7	689	1	US-08-059-032-5	Sequence 5, Appli
147	29	61.7	57	2	US-09-270-767-56051	Sequence 56051, A	220	29	61.7	689	4	PCT-US91-07290-5	Sequence 5, Appli
148	29	61.7	101	2	US-09-248-796A-27613	Sequence 27613, A	221	29	61.7	719	1	US-09-003-217-2	Sequence 2, Appli
149	29	61.7	102	2	US-10-004-381-9	Sequence 9, Appli	222	29	61.7	719	2	US-09-218-942-2	Sequence 2, Appli
150	29	61.7	155	2	US-08-946-329A-53	Sequence 53, Appl	223	29	61.7	788	2	US-09-248-796A-18066	Sequence 18066, A
151	29	61.7	155	2	US-09-562-914-53	Sequence 7249, Ap	224	29	61.7	1082	2	US-09-538-092-533	Sequence 533, App
152	29	61.7	160	2	US-09-107-532A-7249	Sequence 7249, Ap	225	29	61.7	1186	2	US-09-178-252-23	Sequence 23, Appl
153	29	61.7	191	2	US-09-711-164-814	Sequence 414, App	226	29	61.7	1186	2	US-09-826-660-23	Sequence 8, Appli
154	29	61.7	199	2	US-09-248-796A-17158	Sequence 17158, A	227	29	61.7	1227	1	US-08-448-170-8	Sequence 4, Appli
155	29	61.7	225	2	US-09-902-540-10010	Sequence 10010, A	228	29	61.7	1227	2	US-08-961-803-9	Sequence 9, Appli
156	29	61.7	263	2	US-09-248-796A-14154	Sequence 14154, A	229	29	61.7	1227	2	US-09-661-803-9	Sequence 9, Appli
157	29	61.7	266	2	US-09-640-211A-902	Sequence 902, App	230	29	61.7	1229	1	US-08-322A-63	Sequence 63, Appl
158	29	61.7	282	1	US-08-118-270-52	Sequence 52, Appl	231	29	61.7	1229	1	US-08-100-709-4	Sequence 4, Appli
159	29	61.7	282	4	PCT-US93-08528-52	Sequence 52, Appl	232	29	61.7	1229	1	US-08-176-865-4	Sequence 4, Appli
160	29	61.7	289	2	US-09-248-796A-17790	Sequence 17790, A	233	29	61.7	1229	1	US-08-474-038-4	Sequence 4, Appli
161	29	61.7	295	2	US-09-095-758-10	Sequence 10, Appl	234	29	61.7	1229	1	US-08-779-046-4	Sequence 4, Appli
162	29	61.7	295	2	US-09-432-968-10	Sequence 10, Appl	235	29	61.7	1236	2	US-08-881-340-4	Sequence 4, Appli
163	29	61.7	295	2	US-09-708-015A-10	Sequence 10, Appl	236	29	61.7	1362	2	US-09-487-558B-306	Sequence 306, App
164	29	61.7	302	2	US-09-134-000C-4689	Sequence 4689, Ap	237	29	61.7	1382	1	US-08-737-713-2	Sequence 2, Appli
165	29	61.7	308	2	US-09-134-000C-4689	Sequence 4689, Ap	238	29	61.7	1382	1	US-09-457-040B-7	Sequence 7, Appli
166	29	61.7	310	4	PCT-US95-04801-6	Sequence 6023, Ap	239	29	61.7	1574	2	US-09-546-013-3	Sequence 10359, A
167	29	61.7	311	2	US-09-710-279-3080	Sequence 3080, Ap	240	29	61.7	1724	1	US-08-477-451-15	Sequence 15, Appl
168	29	61.7	313	1	US-08-592-411-15	Sequence 11, Appl	241	29	61.7	3135	1	US-09-949-016-8301	Sequence 8301, Ap
169	29	61.7	314	1	US-08-592-411-17	Sequence 17, Appl	242	29	61.7	3135	1	US-08-323-170B-2	Sequence 2, Appli
170	29	61.7	319	2	US-09-583-110-5004	Sequence 5004, Ap	243	29	61.7	31	2	US-08-954-441-2	Sequence 2, Appli
171	29	61.7	319	2	US-09-583-110-5004	Sequence 5004, Ap	244	28	59.6	32	2	US-08-437-943D-14	Sequence 14, Appl
172	29	61.7	323	2	US-09-522-714-8	Sequence 8, Appli	245	28	59.6	47	2	US-10-002-344A-220	Sequence 220, App
173	29	61.7	325	6	5320941-2	Patent No. 5320941	246	28	59.6	47	2	US-08-675-499A-13	Sequence 13, Appl

247	28	59.6	49	2	US-09-155-107-11	Sequence 11, Appl	320	28	59.6	394	2	US-09-198-452A-336	Sequence 396, App
248	28	59.6	49	2	US-09-185-607-3	Sequence 3, Appl1	321	28	59.6	394	2	US-09-248-796A-23067	Sequence 23067, A
249	28	59.6	89	2	US-09-583-110-3660	Sequence 3660, Ap	322	28	59.6	397	2	US-09-489-039A-12210	Sequence 12210, A
250	28	59.6	95	2	US-09-543-681A-7595	Sequence 7595, Ap	323	28	59.6	402	2	US-09-438-185A-382	Sequence 382, App
251	28	59.6	100	2	US-09-248-796A-27319	Sequence 27319, A	324	28	59.6	409	2	US-10-094-944-33	Sequence 33, Appl
252	28	59.6	102	2	US-09-107-433-2633	Sequence 2633, Ap	325	28	59.6	411	2	US-09-540-236-3549	Sequence 3549, Ap
253	28	59.6	116	2	US-09-270-767-49286	Sequence 34063, A	326	28	59.6	414	2	US-09-134-001C-3357	Sequence 3357, Ap
254	28	59.6	116	2	US-09-270-767-49286	Sequence 49286, A	327	28	59.6	416	2	US-10-272-490-81	Sequence 81, Appl
255	28	59.6	117	2	US-09-489-039A-13671	Sequence 13671, A	328	28	59.6	417	2	US-09-949-016-6482	Sequence 6482, Ap
256	28	59.6	118	2	US-09-198-452A-477	Sequence 477, App	329	28	59.6	418	2	US-09-949-016-6482	Sequence 8, Appl1
257	28	59.6	122	2	US-09-489-039A-13780	Sequence 13780, A	330	28	59.6	418	2	US-09-198-603C-8	Sequence 6044, Ap
258	28	59.6	123	2	US-09-328-352-6157	Sequence 6157, Ap	331	28	59.6	422	2	US-09-949-016-9517	Sequence 9517, Ap
259	28	59.6	132	2	US-09-164-615-16	Sequence 16, Appl	332	28	59.6	422	2	US-09-949-016-9517	Sequence 9518, Ap
260	28	59.6	132	2	US-09-164-615-49	Sequence 49, Appl	333	28	59.6	422	2	US-09-949-016-9518	Sequence 9518, Ap
261	28	59.6	132	2	US-09-164-615-50	Sequence 50, Appl	334	28	59.6	422	2	US-09-949-016-9518	Sequence 16012, A
262	28	59.6	132	2	US-09-164-615-51	Sequence 51, Appl	335	28	59.6	447	2	US-09-109-404-3	Sequence 17586, A
263	28	59.6	132	2	US-09-164-615-52	Sequence 52, Appl	336	28	59.6	447	2	US-09-490-032-3	Sequence 3, Appl1
264	28	59.6	132	2	US-09-164-615-53	Sequence 53, Appl	337	28	59.6	447	2	US-09-902-540-13195	Sequence 3, Appl1
265	28	59.6	132	2	US-09-164-615-54	Sequence 54, Appl	338	28	59.6	449	2	US-09-949-016-9515	Sequence 13195, A
266	28	59.6	132	2	US-09-270-767-33954	Sequence 33954, A	339	28	59.6	449	2	US-09-949-016-9516	Sequence 9515, Ap
267	28	59.6	133	2	US-09-270-767-49171	Sequence 49171, A	340	28	59.6	450	2	US-10-272-490-2	Sequence 9516, Ap
268	28	59.6	136	2	US-09-270-767-43851	Sequence 43851, A	341	28	59.6	450	2	US-10-272-490-2	Sequence 2, Appl1
269	28	59.6	159	1	US-08-553-619B-2	Sequence 2, Appl1	342	28	59.6	466	2	US-09-252-991A-21778	Sequence 2, Appl1
270	28	59.6	163	2	US-09-270-767-33325	Sequence 33325, A	343	28	59.6	466	2	US-09-385-219A-48	Sequence 48, Appl
271	28	59.6	163	2	US-09-270-767-48542	Sequence 48542, A	344	28	59.6	493	2	US-08-933-821-2	Sequence 1034, Ap
272	28	59.6	172	2	US-09-543-681A-7580	Sequence 7580, Ap	345	28	59.6	493	2	US-08-960-507-2	Sequence 2, Appl1
273	28	59.6	172	2	US-09-902-540C-14272	Sequence 14272, A	346	28	59.6	493	2	US-09-136-828-2	Sequence 2, Appl1
274	28	59.6	173	2	US-09-134-000C-4325	Sequence 4325, Ap	347	28	59.6	493	2	US-09-332-928A-2	Sequence 2, Appl1
275	28	59.6	173	2	US-09-615-192A-299	Sequence 299, App	348	28	59.6	493	2	US-09-136-801-2	Sequence 2, Appl1
276	28	59.6	184	2	US-09-615-192A-299	Sequence 2428, Ap	349	28	59.6	493	2	US-09-332-929-2	Sequence 2, Appl1
277	28	59.6	190	2	US-09-248-796A-27916	Sequence 27916, A	350	28	59.6	493	2	US-09-333-075-2	Sequence 2, Appl1
278	28	59.6	202	2	US-09-543-681A-6592	Sequence 6592, Ap	351	28	59.6	493	2	US-09-202-088A-2	Sequence 2, Appl1
279	28	59.6	205	2	US-09-134-001C-4766	Sequence 4766, Ap	352	28	59.6	493	2	US-09-333-077-2	Sequence 2, Appl1
280	28	59.6	212	2	US-09-248-796A-17170	Sequence 17170, A	353	28	59.6	497	2	US-10-018-386-2	Sequence 2, Appl1
281	28	59.6	218	2	US-09-134-000C-4489	Sequence 4489, Ap	354	28	59.6	497	2	US-10-104-047-3603	Sequence 3603, Ap
282	28	59.6	234	2	US-09-134-000C-6346	Sequence 6346, Ap	355	28	59.6	509	2	US-09-252-991A-21709	Sequence 21709, A
283	28	59.6	240	2	US-09-583-110-3479	Sequence 3479, Ap	356	28	59.6	510	2	US-09-270-767-42036	Sequence 42036, A
284	28	59.6	245	2	US-09-252-991A-28249	Sequence 28249, A	357	28	59.6	522	1	US-08-680-726A-58	Sequence 58, Appl
285	28	59.6	247	2	US-09-605-703B-702	Sequence 702, App	358	28	59.6	522	2	US-09-092-409-58	Sequence 18, Appl
286	28	59.6	247	2	US-09-605-703B-704	Sequence 704, App	359	28	59.6	542	2	US-09-693-746-18	Sequence 58, Appl
287	28	59.6	260	2	US-10-237-551-120	Sequence 120, App	360	28	59.6	545	2	US-10-237-551-121	Sequence 121, App
288	28	59.6	264	2	US-08-969-644-12	Sequence 12, Appl	361	28	59.6	545	2	US-10-237-551-157	Sequence 157, App
289	28	59.6	264	2	US-08-444-189-12	Sequence 12, Appl	362	28	59.6	547	2	US-10-237-551-215	Sequence 215, App
290	28	59.6	264	2	US-08-465-465-2	Sequence 12, Appl	363	28	59.6	547	2	US-10-237-551-216	Sequence 216, App
291	28	59.6	264	2	US-08-468-544-12	Sequence 4957, Ap	364	28	59.6	561	2	US-09-252-991A-26977	Sequence 26977, A
292	28	59.6	279	2	US-09-107-433-4457	Sequence 75293, A	365	28	59.6	585	1	US-07-955-905A-23	Sequence 23, Appl
293	28	59.6	288	2	US-09-270-767-57293	Sequence 20693, A	367	28	59.6	596	2	US-09-134-000C-6209	Sequence 6209, Ap
294	28	59.6	291	2	US-09-248-796A-20693	Sequence 4934, Ap	368	28	59.6	600	2	US-09-252-991A-31546	Sequence 31546, A
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296	28	59.6	302	2	US-10-094-944-35	Sequence 110, App	370	28	59.6	613	2	US-09-464-317-3	Sequence 3, Appl1
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306	28	59.6	351	2	US-10-094-944-34	Sequence 1108, Ap	380	28	59.6	680	1	US-08-674-351-2	Sequence 6, Appl1
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398	28	59.6	858	1	US-08-265-628-2	Sequence 2, Appl1
399	28	59.6	963	2	US-09-487-558B-74	Sequence 74, Appl1
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415	28	59.6	4588	2	US-10-025-225-8	Sequence 8, Appl1
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421	27	57.4	21	1	US-08-780-571-22	Sequence 22, Appl1
422	27	57.4	21	2	US-09-324-217B-24	Sequence 24, Appl1
423	27	57.4	26	1	US-07-864-475A-8	Sequence 8, Appl1
424	27	57.4	26	1	US-08-468-249A-8	Sequence 8, Appl1
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436	27	57.4	39	1	US-08-468-674B-26	Sequence 26, Appl1
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449	27	57.4	49	2	US-09-155-107-13	Sequence 13, Appl1
450	27	57.4	49	2	US-09-155-107-14	Sequence 14, Appl1
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453	27	57.4	49	2	US-09-185-607-5	Sequence 5, Appl1
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494	27	57.4	104	2	US-09-490-324-168	Sequence 168, App
495	27	57.4	106	2	US-09-270-767-37376	Sequence 37376, A
496	27	57.4	106	2	US-09-270-767-55293	Sequence 55293, A
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505	27	57.4	121	2	US-09-171-945-20	Sequence 20, Appl1
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508	27	57.4	130	2	US-09-634-001C-1992	Sequence 3992, Ap
509	27	57.4	131	2	US-09-121-976-4639	Sequence 4639, Ap
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530	27	57.4	222	2	US-09-699-705-13	Sequence 13, Appl1
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536	27	57.4	225	2	US-09-456-090A-66	Sequence 66, Appl1
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552	-27	57.4	225	2	US-09-453-234-66	Sequence 66, Appl	625	27	57.4	233	2	US-09-041-889-9	Sequence 9, Appl
553	-27	57.4	225	2	US-09-453-234-68	Sequence 68, Appl	626	27	57.4	233	2	US-08-837-058-9	Sequence 25, Appl
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557	-27	57.4	225	2	US-09-453-234-96	Sequence 96, Appl	630	27	57.4	233	2	US-09-296-005-26	Sequence 26, Appl
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561	-27	57.4	225	2	US-09-453-234-106	Sequence 106, Appl	634	27	57.4	233	2	US-09-920-171-26	Sequence 26, Appl
562	-27	57.4	225	2	US-09-453-234-108	Sequence 108, Appl	635	27	57.4	233	2	US-09-716-028-25	Sequence 25, Appl
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565	-27	57.4	228	2	US-09-902-540-16049	Sequence 16049, A	638	27	57.4	233	2	US-10-113-996-26	Sequence 26, Appl
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569	-27	57.4	229	2	US-09-109-207C-21	Sequence 21, Appl	642	27	57.4	235	2	US-08-444-644-28	Sequence 28, Appl
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571	-27	57.4	229	2	US-09-296-005-21	Sequence 21, Appl	644	27	57.4	235	2	US-08-437-642B-30	Sequence 30, Appl
572	-27	57.4	229	2	US-09-920-171-20	Sequence 20, Appl	645	27	57.4	235	2	US-08-232-246A-18	Sequence 18, Appl
573	-27	57.4	229	2	US-09-920-171-21	Sequence 21, Appl	646	27	57.4	235	2	US-08-232-246A-28	Sequence 28, Appl
574	-27	57.4	229	2	US-09-716-028-20	Sequence 20, Appl	647	27	57.4	235	2	US-08-232-246A-42	Sequence 42, Appl
575	-27	57.4	229	2	US-09-716-028-21	Sequence 21, Appl	648	27	57.4	235	2	PCT-US93-07832-30	Sequence 30, Appl
576	-27	57.4	229	2	US-10-113-996-20	Sequence 20, Appl	649	27	57.4	236	1	US-08-070-116A-2	Sequence 2, Appl
577	-27	57.4	229	2	US-10-113-996-21	Sequence 21, Appl	650	27	57.4	236	2	US-08-557-050-2	Sequence 2, Appl
578	-27	57.4	230	2	US-08-552-235-2	Sequence 2, Appl	651	27	57.4	236	2	US-08-557-050-2	Sequence 2, Appl
579	-27	57.4	230	2	US-09-669-971-2	Sequence 2, Appl	652	27	57.4	236	2	US-09-456-090A-64	Sequence 64, Appl
580	-27	57.4	231	2	US-09-543-681A-8125	Sequence 8125, Ap	653	27	57.4	236	2	US-09-456-090A-104	Sequence 104, Appl
581	-27	57.4	232	1	US-08-425-763-2	Sequence 2, Appl	654	27	57.4	236	2	US-09-453-234-64	Sequence 64, Appl
582	-27	57.4	232	1	US-07-934-373C-26	Sequence 26, Appl	655	27	57.4	240	2	US-09-270-767-41468	Sequence 104, Appl
583	-27	57.4	232	1	US-07-934-373C-27	Sequence 27, Appl	656	27	57.4	241	2	US-09-420-166A-1	Sequence 1, Appl
584	-27	57.4	232	1	US-07-934-373C-28	Sequence 28, Appl	657	27	57.4	241	2	US-09-097-171A-1	Sequence 1, Appl
585	-27	57.4	232	1	US-07-934-373C-29	Sequence 29, Appl	658	27	57.4	241	2	US-09-097-171A-1	Sequence 1, Appl
586	-27	57.4	232	1	US-07-934-373C-31	Sequence 31, Appl	659	27	57.4	241	2	US-09-460-587-1	Sequence 1, Appl
587	-27	57.4	232	1	US-07-934-373C-32	Sequence 32, Appl	660	27	57.4	241	2	US-09-460-587-1	Sequence 1, Appl
588	-27	57.4	232	1	US-07-934-373C-33	Sequence 33, Appl	661	27	57.4	241	2	US-09-460-587-1	Sequence 1, Appl
589	-27	57.4	232	1	US-07-934-373C-34	Sequence 34, Appl	662	27	57.4	244	1	US-08-951-822-23	Sequence 23, Appl
590	-27	57.4	232	1	US-07-934-373C-35	Sequence 35, Appl	663	27	57.4	244	1	US-08-951-822-23	Sequence 23, Appl
591	-27	57.4	232	1	US-07-934-373C-36	Sequence 36, Appl	664	27	57.4	247	2	US-08-705-245-4	Sequence 4, Appl
592	-27	57.4	232	1	US-07-934-373C-37	Sequence 37, Appl	665	27	57.4	247	2	US-08-705-245-4	Sequence 4, Appl
593	-27	57.4	232	1	US-07-934-373C-38	Sequence 38, Appl	666	27	57.4	247	2	US-08-705-245-11	Sequence 11, Appl
594	-27	57.4	232	1	US-08-788-800-10	Sequence 10, Appl	667	27	57.4	247	2	US-09-368-951-23	Sequence 23, Appl
595	-27	57.4	232	1	US-08-437-642B-26	Sequence 26, Appl	668	27	57.4	247	2	US-09-368-951-23	Sequence 23, Appl
596	-27	57.4	232	2	US-08-437-642B-27	Sequence 27, Appl	669	27	57.4	247	2	US-09-390-207-16	Sequence 16, Appl
597	-27	57.4	232	2	US-08-437-642B-28	Sequence 28, Appl	670	27	57.4	247	2	US-09-390-207-16	Sequence 16, Appl
598	-27	57.4	232	2	US-08-437-642B-29	Sequence 29, Appl	671	27	57.4	247	2	US-09-490-714-4	Sequence 4, Appl
599	-27	57.4	232	2	US-08-437-642B-31	Sequence 31, Appl	672	27	57.4	247	2	US-09-490-714-4	Sequence 4, Appl
600	-27	57.4	232	2	US-08-437-642B-32	Sequence 32, Appl	673	27	57.4	247	2	US-09-949-016-9554	Sequence 9554, Ap
601	-27	57.4	232	2	US-08-437-642B-33	Sequence 33, Appl	674	27	57.4	247	2	US-09-949-016-9554	Sequence 9554, Ap
602	-27	57.4	232	2	US-08-437-642B-34	Sequence 34, Appl	675	27	57.4	247	2	US-09-949-016-9554	Sequence 9554, Ap
603	-27	57.4	232	2	US-08-437-642B-35	Sequence 35, Appl	676	27	57.4	247	2	US-09-949-016-9554	Sequence 9554, Ap
604	-27	57.4	232	2	US-08-437-642B-36	Sequence 36, Appl	677	27	57.4	247	2	US-09-949-016-9554	Sequence 9554, Ap
605	-27	57.4	232	2	US-08-437-642B-37	Sequence 37, Appl	678	27	57.4	247	2	US-09-949-016-9554	Sequence 9554, Ap
606	-27	57.4	232	2	US-08-437-642B-38	Sequence 38, Appl	679	27	57.4	247	2	US-09-949-016-9554	Sequence 9554, Ap
607	-27	57.4	232	2	US-08-811-757-2	Sequence 2, Appl	680	27	57.4	251	1	US-08-194-975-110	Sequence 10, Appl
608	-27	57.4	232	2	US-09-249-230-2	Sequence 2, Appl	681	27	57.4	251	1	US-08-398-612A-30	Sequence 30, Appl
609	-27	57.4	232	4	PCT-US93-07832-26	Sequence 26, Appl	682	27	57.4	251	1	US-08-398-612A-30	Sequence 30, Appl
610	-27	57.4	232	4	PCT-US93-07832-27	Sequence 27, Appl	683	27	57.4	251	1	US-08-491-334A-30	Sequence 30, Appl
611	-27	57.4	232	4	PCT-US93-07832-28	Sequence 28, Appl	684	27	57.4	251	2	US-09-027-449-27	Sequence 27, Appl

655	27	57.4	251	2	US-09-026-985-27	Sequence 27, Appl	758	27	57.4	300	2	US-09-364-088-4	Sequence 4, Appl
656	27	57.4	251	2	US-09-121-952A-27	Sequence 27, Appl	759	27	57.4	300	2	US-09-102-716-4	Sequence 4, Appl
657	27	57.4	251	2	US-09-234-340A-27	Sequence 27, Appl	760	27	57.4	300	2	US-09-270-767-55899	Sequence 45899, A
658	27	57.4	251	2	US-09-355-014-27	Sequence 27, Appl	761	27	57.4	300	2	US-09-940-166A-7	Sequence 7, Appl
659	27	57.4	252	1	US-08-398-613A-30	Sequence 30, Appl	762	27	57.4	302	2	US-09-248-796A-24789	Sequence 24789, A
660	27	57.4	252	1	US-08-253-877C-6	Sequence 6, Appl	763	27	57.4	306	2	US-09-171-945-95	Sequence 95, Appl
661	27	57.4	252	1	US-08-462-169B-2	Sequence 2, Appl	764	27	57.4	306	2	US-09-910-059-95	Sequence 95, Appl
662	27	57.4	252	1	US-08-462-169B-2	Sequence 2, Appl	765	27	57.4	308	2	US-09-248-796A-14626	Sequence 14626, A
663	27	57.4	252	1	US-08-452-164A-6	Sequence 6, Appl	766	27	57.4	310	2	US-09-136-658-2	Sequence 2, Appl
664	27	57.4	252	2	US-09-103-079-2	Sequence 2, Appl	767	27	57.4	312	2	US-09-730-219-2186	Sequence 2186, Appl
665	27	57.4	252	2	US-09-103-079-23	Sequence 23, Appl	768	27	57.4	313	2	US-09-270-767-44375	Sequence 44375, A
666	27	57.4	252	2	US-09-425-021-2	Sequence 2, Appl	769	27	57.4	317	1	US-08-977-841-3	Sequence 3, Appl
667	27	57.4	252	2	US-09-425-021-23	Sequence 23, Appl	770	27	57.4	317	1	US-09-195-021-3	Sequence 4, Appl
668	27	57.4	252	2	US-09-564-829-2	Sequence 2, Appl	771	27	57.4	317	2	US-08-940-424-4	Sequence 9398, Ap
669	27	57.4	253	1	US-08-398-613A-58	Sequence 58, Appl	772	27	57.4	320	2	US-09-489-039A-9398	Sequence 3133, Ap
670	27	57.4	253	1	US-08-398-612A-58	Sequence 58, Appl	773	27	57.4	322	2	US-09-134-001C-3133	Sequence 4346, Ap
671	27	57.4	253	1	US-08-398-611A-58	Sequence 58, Appl	774	27	57.4	325	2	US-08-656-586-9	Sequence 9, Appl
672	27	57.4	253	1	US-08-491-334A-58	Sequence 58, Appl	775	27	57.4	326	1	US-08-761-277A-47	Sequence 47, Appl
673	27	57.4	253	2	US-09-027-449-44	Sequence 44, Appl	776	27	57.4	327	1	US-08-253-316-28	Sequence 28, Appl
674	27	57.4	253	2	US-09-027-449-52	Sequence 52, Appl	777	27	57.4	328	2	US-09-489-039A-13216	Sequence 13216, A
675	27	57.4	253	2	US-09-027-449-55	Sequence 55, Appl	778	27	57.4	328	2	US-09-961-403-2	Sequence 2, Appl
676	27	57.4	253	2	US-08-804-444A-44	Sequence 44, Appl	779	27	57.4	328	6	5212074-4	Patent No. 5212074
677	27	57.4	253	2	US-08-804-444A-52	Sequence 52, Appl	780	27	57.4	329	2	US-09-313-942-12	Sequence 12, Appl
678	27	57.4	253	2	US-08-804-444A-55	Sequence 55, Appl	781	27	57.4	329	2	US-10-282-162-12	Sequence 12, Appl
679	27	57.4	253	2	US-09-026-985-44	Sequence 44, Appl	782	27	57.4	330	2	US-09-301-593-22	Sequence 22, Appl
680	27	57.4	253	2	US-09-026-985-52	Sequence 52, Appl	783	27	57.4	331	1	US-08-646-981-17	Sequence 17, Appl
681	27	57.4	253	2	US-09-026-985-55	Sequence 55, Appl	784	27	57.4	331	1	US-08-646-981-16	Sequence 16, Appl
682	27	57.4	253	2	US-09-121-952A-44	Sequence 44, Appl	785	27	57.4	334	1	US-08-646-981-16	Sequence 4, Appl
683	27	57.4	253	2	US-09-121-952A-52	Sequence 52, Appl	786	27	57.4	341	2	US-09-800-170-4	Sequence 4, Appl
684	27	57.4	253	2	US-09-121-952A-55	Sequence 55, Appl	787	27	57.4	352	2	US-09-514-521-1	Sequence 1, Appl
685	27	57.4	253	2	US-09-234-340A-44	Sequence 44, Appl	788	27	57.4	352	2	US-09-791-165-2	Sequence 2, Appl
686	27	57.4	253	2	US-09-234-340A-52	Sequence 52, Appl	789	27	57.4	352	2	US-09-791-165-4	Sequence 4, Appl
687	27	57.4	253	2	US-09-234-340A-55	Sequence 55, Appl	790	27	57.4	352	2	US-09-828-995B-38	Sequence 38, Appl
688	27	57.4	253	2	US-09-355-014-44	Sequence 44, Appl	791	27	57.4	356	2	US-09-270-767-46120	Sequence 46120, A
689	27	57.4	253	2	US-09-355-014-52	Sequence 52, Appl	792	27	57.4	365	2	US-09-801-874-5	Sequence 5, Appl
690	27	57.4	253	2	US-09-355-014-55	Sequence 55, Appl	793	27	57.4	366	2	US-09-248-796A-17943	Sequence 17343, A
691	27	57.4	254	2	US-09-908-469-101	Sequence 101, App	794	27	57.4	369	2	US-09-248-796A-15604	Sequence 15604, A
692	27	57.4	255	2	US-09-171-945-19	Sequence 19, Appl	795	27	57.4	371	1	US-08-236-311-7	Sequence 7, Appl
693	27	57.4	255	2	US-09-171-945-57	Sequence 57, Appl	796	27	57.4	371	2	US-08-457-918-7	Sequence 7, Appl
694	27	57.4	255	2	US-09-543-681A-5383	Sequence 5383, Ap	797	27	57.4	371	2	US-10-157-408-7	Sequence 7, Appl
695	27	57.4	255	2	US-09-910-059-19	Sequence 19, Appl	798	27	57.4	373	2	US-09-828-995B-35	Sequence 35, Appl
696	27	57.4	255	2	US-09-910-059-57	Sequence 57, Appl	799	27	57.4	374	2	US-09-270-767-36720	Sequence 36720, A
697	27	57.4	256	2	US-09-027-449-70	Sequence 70, Appl	800	27	57.4	375	2	US-09-270-767-51937	Sequence 51937, A
698	27	57.4	256	2	US-09-026-985-70	Sequence 70, Appl	801	27	57.4	375	2	US-09-828-995B-32	Sequence 32, Appl
699	27	57.4	256	2	US-09-121-952A-70	Sequence 70, Appl	802	27	57.4	377	1	US-08-761-277A-45	Sequence 45, Appl
700	27	57.4	256	2	US-09-234-340A-70	Sequence 70, Appl	803	27	57.4	389	2	US-09-543-681A-7318	Sequence 7318, Ap
701	27	57.4	256	2	US-09-355-014-70	Sequence 70, Appl	804	27	57.4	386	2	US-08-985-808-24	Sequence 24, Appl
702	27	57.4	257	2	US-09-949-016-11183	Sequence 11183, A	805	27	57.4	397	1	US-10-363-937-8	Sequence 8, Appl
703	27	57.4	258	2	US-09-328-352-4253	Sequence 4253, Ap	806	27	57.4	397	1	US-08-098-141-2	Sequence 2, Appl
704	27	57.4	259	2	US-09-617-805-8	Sequence 8, Appl	807	27	57.4	401	2	US-09-489-039A-11921	Sequence 11921, A
705	27	57.4	260	2	US-09-617-805-8	Sequence 8, Appl	808	27	57.4	401	2	US-09-248-796A-15172	Sequence 15172, A
706	27	57.4	260	2	US-09-910-059-93	Sequence 93, Appl	809	27	57.4	402	2	US-09-489-039A-12073	Sequence 12073, A
707	27	57.4	261	2	US-09-134-001C-4966	Sequence 4966, Ap	810	27	57.4	405	1	US-08-519-081-2	Sequence 2, Appl
708	27	57.4	268	2	US-09-134-000C-5975	Sequence 5975, A	811	27	57.4	405	1	US-08-754-369-2	Sequence 2, Appl
709	27	57.4	269	2	US-09-902-540-12352	Sequence 12352, A	812	27	57.4	409	2	US-08-754-369-2	Sequence 2, Appl
710	27	57.4	273	2	US-08-397-411-6	Sequence 6, Appl	813	27	57.4	410	2	US-10-272-490-52	Sequence 52, Appl
711	27	57.4	274	2	US-09-248-796A-20527	Sequence 20527, A	814	27	57.4	411	2	US-09-248-796A-21007	Sequence 21007, A
712	27	57.4	279	2	US-08-397-411-13	Sequence 13, Appl	815	27	57.4	416	2	US-09-949-016-7087	Sequence 7087, Ap
713	27	57.4	287	2	US-09-134-001C-5603	Sequence 5603, Ap	816	27	57.4	421	2	US-09-949-016-11670	Sequence 11670, A
714	27	57.4	297	2	US-09-489-039A-9087	Sequence 9087, Ap	817	27	57.4	437	2	US-09-248-796A-18684	Sequence 18684, A
715	27	57.4	298	2	US-09-027-449-50	Sequence 60, Appl	818	27	57.4	439	2	US-09-270-767-41803	Sequence 41803, A
716	27	57.4	298	2	US-08-804-444A-60	Sequence 60, Appl	819	27	57.4	442	1	US-08-480-036A-2	Sequence 2, Appl
717	27	57.4	298	2	US-09-026-985-60	Sequence 60, Appl	820	27	57.4	442	1	US-08-461-968A-5	Sequence 2, Appl
718	27	57.4	298	2	US-09-121-952A-60	Sequence 60, Appl	821	27	57.4	442	1	US-08-461-968A-5	Sequence 5, Appl
719	27	57.4	298	2	US-09-121-952A-60	Sequence 60, Appl	822	27	57.4	442	1	US-08-462-571-2	Sequence 2, Appl
720	27	57.4	298	2	US-09-234-340A-60	Sequence 60, Appl	823	27	57.4	442	1	US-08-462-571-2	Sequence 5, Appl
721	27	57.4	298	2	US-09-355-014-60	Sequence 60, Appl	824	27	57.4	442	2	US-08-472-888A-2	Sequence 2, Appl
722	27	57.4	300	1	US-08-661-052-4	Sequence 4, Appl	825	27	57.4	442	2	US-08-472-888A-7	Sequence 7, Appl
723	27	57.4	300	2	US-09-097-309-7	Sequence 9, Appl	826	27	57.4	442	4	PCT-US96-10043-9	Sequence 9, Appl
724	27	57.4	300	2	US-09-422-712B-3	Sequence 3, Appl	827	27	57.4	442	4	PCT-US96-10043-9	Sequence 12, Appl
725	27	57.4	300	2	US-09-607-75B-3	Sequence 3, Appl	828	27	57.4	443	4	PCT-US96-13152-4	Sequence 4, Appl
726	27	57.4	300	2	US-09-188-082-4	Sequence 4, Appl	829	27	57.4	445	2	US-08-341-560B-17	Sequence 17, Appl
727	27	57.4	300	2	US-09-460-587-7	Sequence 7, Appl	830	27	57.4	446	2	US-08-397-411-7	Sequence 7, Appl

831	27	57.4	446	2	US-09-489-039A-7920	Sequence 7920, App	904	27	57.4	451	2	US-09-680-145-2	Sequence 2, Appl	5864	27	57.4	451	2	US-09-130-000C-5864	Sequence 2, Appl
832	27	57.4	449	1	US-08-458-516-13	Sequence 13, Appl	905	27	57.4	451	2	US-09-920-111-14	Sequence 14, Appl	5865	27	57.4	451	2	US-09-920-111-14	Sequence 14, Appl
833	27	57.4	449	1	US-09-679-397-2	Sequence 2, Appl	906	27	57.4	451	2	US-09-920-111-16	Sequence 16, Appl	5866	27	57.4	451	2	US-09-920-111-16	Sequence 16, Appl
834	27	57.4	449	2	US-09-680-148-2	Sequence 2, Appl	907	27	57.4	451	2	US-09-920-111-18	Sequence 18, Appl	5867	27	57.4	451	2	US-09-920-111-18	Sequence 18, Appl
835	27	57.4	449	2	US-09-304-465A-2	Sequence 2, Appl	908	27	57.4	451	2	US-09-472-087-70	Sequence 70, Appl	5868	27	57.4	451	2	US-09-472-087-70	Sequence 70, Appl
836	27	57.4	449	2	US-10-356-974-2	Sequence 2, Appl	909	27	57.4	451	2	US-09-716-028-14	Sequence 14, Appl	5869	27	57.4	451	2	US-09-716-028-14	Sequence 14, Appl
837	27	57.4	450	1	US-08-788-800-12	Sequence 12, Appl	910	27	57.4	451	2	US-09-716-028-16	Sequence 16, Appl	5870	27	57.4	451	2	US-09-716-028-16	Sequence 16, Appl
838	27	57.4	450	1	US-09-592-891A-14	Sequence 14, Appl	911	27	57.4	451	2	US-09-716-028-18	Sequence 18, Appl	5871	27	57.4	451	2	US-09-716-028-18	Sequence 18, Appl
839	27	57.4	450	2	US-09-969-844-14	Sequence 14, Appl	912	27	57.4	451	2	US-09-483-588-2	Sequence 2, Appl	5872	27	57.4	451	2	US-09-483-588-2	Sequence 2, Appl
840	27	57.4	450	2	US-09-966-288-208	Sequence 208, App	913	27	57.4	451	2	US-10-113-996-14	Sequence 14, Appl	5873	27	57.4	451	2	US-10-113-996-14	Sequence 14, Appl
841	27	57.4	450	2	US-09-966-288-210	Sequence 210, App	914	27	57.4	451	2	US-10-113-996-16	Sequence 16, Appl	5874	27	57.4	451	2	US-10-113-996-16	Sequence 16, Appl
842	27	57.4	450	2	US-09-966-288-212	Sequence 212, App	915	27	57.4	451	2	US-10-113-996-18	Sequence 18, Appl	5875	27	57.4	451	2	US-10-113-996-18	Sequence 18, Appl
843	27	57.4	450	2	US-09-966-288-214	Sequence 214, App	916	27	57.4	451	2	US-09-966-288-230	Sequence 230, App	5876	27	57.4	451	2	US-09-966-288-230	Sequence 230, App
844	27	57.4	450	2	US-09-966-288-216	Sequence 216, App	917	27	57.4	451	2	US-09-966-288-232	Sequence 232, App	5877	27	57.4	451	2	US-09-966-288-232	Sequence 232, App
845	27	57.4	450	2	US-09-966-288-218	Sequence 218, App	918	27	57.4	451	2	US-09-966-288-234	Sequence 234, App	5878	27	57.4	451	2	US-09-966-288-234	Sequence 234, App
846	27	57.4	450	2	US-09-966-288-220	Sequence 220, App	919	27	57.4	451	2	US-09-966-288-236	Sequence 236, App	5879	27	57.4	451	2	US-09-966-288-236	Sequence 236, App
847	27	57.4	450	2	US-09-966-288-222	Sequence 222, App	920	27	57.4	451	2	US-09-966-288-238	Sequence 238, App	5880	27	57.4	451	2	US-09-966-288-238	Sequence 238, App
848	27	57.4	450	2	US-09-966-288-224	Sequence 224, App	921	27	57.4	451	2	US-09-966-288-240	Sequence 240, App	5881	27	57.4	451	2	US-09-966-288-240	Sequence 240, App
849	27	57.4	450	2	US-09-966-288-226	Sequence 226, App	922	27	57.4	451	2	US-09-966-288-242	Sequence 242, App	5882	27	57.4	451	2	US-09-966-288-242	Sequence 242, App
850	27	57.4	450	2	US-09-966-288-228	Sequence 228, App	923	27	57.4	452	2	US-09-355-014-71	Sequence 71, Appl	5883	27	57.4	452	2	US-09-355-014-71	Sequence 71, Appl
851	27	57.4	450	2	US-09-966-288-232	Sequence 232, App	924	27	57.4	452	2	US-09-355-014-71	Sequence 71, Appl	5884	27	57.4	452	2	US-09-355-014-71	Sequence 71, Appl
852	27	57.4	450	2	US-09-966-288-234	Sequence 234, App	925	27	57.4	452	2	US-09-355-014-71	Sequence 71, Appl	5885	27	57.4	452	2	US-09-355-014-71	Sequence 71, Appl
853	27	57.4	450	2	US-09-966-288-236	Sequence 236, App	926	27	57.4	452	2	US-08-466-151-8	Sequence 8, Appl	5886	27	57.4	452	2	US-08-466-151-8	Sequence 8, Appl
854	27	57.4	450	2	US-09-966-288-238	Sequence 238, App	927	27	57.4	453	2	US-08-466-151-8	Sequence 8, Appl	5887	27	57.4	453	2	US-08-466-151-8	Sequence 8, Appl
855	27	57.4	450	2	US-09-966-288-240	Sequence 240, App	928	27	57.4	453	2	US-09-301-593-18	Sequence 18, Appl	5888	27	57.4	453	2	US-09-301-593-18	Sequence 18, Appl
856	27	57.4	450	2	US-09-966-288-242	Sequence 242, App	929	27	57.4	453	2	US-09-802-096-8	Sequence 8, Appl	5889	27	57.4	453	2	US-09-802-096-8	Sequence 8, Appl
857	27	57.4	450	2	US-09-966-288-244	Sequence 244, App	930	27	57.4	453	2	US-09-802-096-8	Sequence 8, Appl	5890	27	57.4	453	2	US-09-802-096-8	Sequence 8, Appl
858	27	57.4	450	2	US-09-966-288-246	Sequence 246, App	931	27	57.4	453	2	US-09-802-096-8	Sequence 8, Appl	5891	27	57.4	453	2	US-09-802-096-8	Sequence 8, Appl
859	27	57.4	450	2	US-09-966-288-248	Sequence 248, App	932	27	57.4	453	2	US-09-802-096-8	Sequence 8, Appl	5892	27	57.4	453	2	US-09-802-096-8	Sequence 8, Appl
860	27	57.4	450	2	US-09-966-288-250	Sequence 250, App	933	27	57.4	454	1	US-07-934-373C-22	Sequence 22, Appl	5893	27	57.4	454	1	US-07-934-373C-22	Sequence 22, Appl
861	27	57.4	450	2	US-09-966-288-252	Sequence 252, App	934	27	57.4	454	1	US-07-934-373C-22	Sequence 22, Appl	5894	27	57.4	454	1	US-07-934-373C-22	Sequence 22, Appl
862	27	57.4	450	2	US-09-966-288-254	Sequence 254, App	935	27	57.4	454	2	US-08-437-642B-22	Sequence 22, Appl	5895	27	57.4	454	2	US-08-437-642B-22	Sequence 22, Appl
863	27	57.4	450	2	US-09-966-288-256	Sequence 256, App	936	27	57.4	454	2	US-08-437-642B-22	Sequence 22, Appl	5896	27	57.4	454	2	US-08-437-642B-22	Sequence 22, Appl
864	27	57.4	450	2	US-09-966-285-308	Sequence 208, App	937	27	57.4	454	2	US-09-705-392A-23	Sequence 23, Appl	5897	27	57.4	454	2	US-09-705-392A-23	Sequence 23, Appl
865	27	57.4	450	2	US-09-966-285-310	Sequence 210, App	938	27	57.4	454	2	US-09-705-392A-23	Sequence 23, Appl	5898	27	57.4	454	2	US-09-705-392A-23	Sequence 23, Appl
866	27	57.4	450	2	US-09-966-285-312	Sequence 212, App	939	27	57.4	454	2	US-09-705-392A-23	Sequence 23, Appl	5899	27	57.4	454	2	US-09-705-392A-23	Sequence 23, Appl
867	27	57.4	450	2	US-09-966-285-314	Sequence 214, App	940	27	57.4	454	2	US-09-705-392A-23	Sequence 23, Appl	5900	27	57.4	454	2	US-09-705-392A-23	Sequence 23, Appl
868	27	57.4	450	2	US-09-966-285-316	Sequence 216, App	941	27	57.4	454	2	US-09-705-392A-23	Sequence 23, Appl	5901	27	57.4	454	2	US-09-705-392A-23	Sequence 23, Appl
869	27	57.4	450	2	US-09-966-285-318	Sequence 218, App	942	27	57.4	455	2	US-09-130-339-2	Sequence 2, Appl	5902	27	57.4	455	2	US-09-130-339-2	Sequence 2, Appl
870	27	57.4	450	2	US-09-966-285-320	Sequence 220, App	943	27	57.4	455	1	US-08-435-933-6	Sequence 6, Appl	5903	27	57.4	455	1	US-08-435-933-6	Sequence 6, Appl
871	27	57.4	450	2	US-09-966-285-322	Sequence 222, App	944	27	57.4	456	1	PCT-US96-06035-6	Sequence 7, Appl	5904	27	57.4	456	1	PCT-US96-06035-6	Sequence 7, Appl
872	27	57.4	450	2	US-09-966-285-324	Sequence 224, App	945	27	57.4	459	1	US-10-630-406-5	Sequence 5, Appl	5905	27	57.4	459	1	US-10-630-406-5	Sequence 5, Appl
873	27	57.4	450	2	US-09-966-285-326	Sequence 226, App	946	27	57.4	460	1	US-08-157-101A-7	Sequence 7, Appl	5906	27	57.4	460	1	US-08-157-101A-7	Sequence 7, Appl
874	27	57.4	450	2	US-09-966-285-328	Sequence 228, App	947	27	57.4	461	1	US-08-463-587A-26	Sequence 26, Appl	5907	27	57.4	461	1	US-08-463-587A-26	Sequence 26, Appl
875	27	57.4	450	2	US-09-966-285-332	Sequence 232, App	948	27	57.4	461	1	US-08-463-587A-26	Sequence 26, Appl	5908	27	57.4	461	1	US-08-463-587A-26	Sequence 26, Appl
876	27	57.4	450	2	US-09-966-285-334	Sequence 234, App	949	27	57.4	461	1	US-08-463-587A-26	Sequence 26, Appl	5909	27	57.4	461	1	US-08-463-587A-26	Sequence 26, Appl
877	27	57.4	450	2	US-09-966-285-336	Sequence 236, App	950	27	57.4	461	1	US-08-463-587A-26	Sequence 26, Appl	5910	27	57.4	461	1	US-08-463-587A-26	Sequence 26, Appl
878	27	57.4	450	2	US-09-966-285-338	Sequence 238, App	951	27	57.4	461	1	US-08-463-587A-26	Sequence 26, Appl	5911	27	57.4	461	1	US-08-463-587A-26	Sequence 26, Appl
879	27	57.4	450	2	US-09-966-285-340	Sequence 240, App	952	27	57.4	461	1	US-08-463-587A-26	Sequence 26, Appl	5912	27	57.4	461	1	US-08-463-587A-26	Sequence 26, Appl
880	27	57.4	450	2	US-09-966-285-342	Sequence 242, App	953	27	57.4	461	1	US-08-463-587A-26	Sequence 26, Appl	5913	27	57.4	461	1	US-08-463-587A-26	Sequence 26, Appl
881	27	57.4	450	2	US-09-966-285-344	Sequence 244, App	954	27	57.4	461	1	US-08-463-587A-26	Sequence 26, Appl	5914	27	57.4	461	1	US-08-463-587A-26	Sequence 26, Appl
882	27	57.4	450	2	US-09-966-285-346	Sequence 246, App	955	27	57.4	461	1	US-08-463-587A-26	Sequence 26, Appl	5915	27	57.4	461	1	US-08-463-587A-26	Sequence 26, Appl
883	27	57.4	450	2	US-09-966-285-348	Sequence 248, App	956	27	57.4	461	1	US-08-463-587A-26	Sequence 26, Appl	5916	27	57.4	461	1	US-08-463-587A-26	Sequence 26, Appl
884	27	57.4	450	2	US-09-966-285-350	Sequence 250, App	957	27	57.4	461	1	US-08-463-587A-26	Sequence 26, Appl	5917	27	57.4	461	1	US-08-463-587A-26	Sequence 26, Appl
885	27	57.4	450	2	US-09-966-285-352	Sequence 252, App	958	27	57.4	461	1	US-08-463-587A-26	Sequence 26, Appl	5918	27	57.4	461	1	US-08-463-587A-26	Sequence 26, Appl
886	27	57.4	450	2	US-09-966-285-354	Sequence 254, App	959	27	57.4	461	1	US-08-463-587A-26	Sequence 26, Appl	5919	27	57.4	461	1	US-08-463-587A-26	Sequence 26, Appl
887	27	57.4	450	2	US-09-966-285-356	Sequence 256, App	960	27	57.4	461	1	US-08-463-587A-26	Sequence 26, Appl	5920	27	57.4	461	1	US-08-463-587A-26	Sequence 26, Appl
888	27	57.4	450	2	US-10-113-636-1	Sequence 1, Appl	961	27	57.4	467	2	US-08-030-175-41	Sequence 41, Appl	5921	27	57.4	467	2		

977 27 57.4 469 2 US-09-705-392A-23 Sequence 23, Appl  
978 27 57.4 469 2 US-09-705-398-23 Sequence 23, Appl  
979 27 57.4 470 2 US-09-328-352-6912 Sequence 6912, Ap  
980 27 57.4 470 2 US-09-828-995B-11 Sequence 11, Appl  
981 27 57.4 470 2 US-09-859-053-28 Sequence 28, Appl  
982 27 57.4 470 2 US-09-859-053-32 Sequence 32, Appl  
983 27 57.4 470 2 US-09-859-053-36 Sequence 36, Appl  
984 27 57.4 470 2 US-09-238-741-4 Sequence 4, Appl  
985 27 57.4 470 2 US-10-104-047-3730 Sequence 3730, Ap  
986 27 57.4 471 2 US-09-270-767-61298 Sequence 61298, A  
987 27 57.4 472 2 US-08-793-450-8 Sequence 8, Appl  
988 27 57.4 472 2 US-09-301-593-30 Sequence 30, Appl  
989 27 57.4 472 2 US-09-301-593-43 Sequence 43, Appl  
990 27 57.4 472 2 US-09-248-796A-26201 Sequence 26201, A  
991 27 57.4 472 2 US-09-438-185A-858 Sequence 858, App  
992 27 57.4 473 2 US-09-049-672A-4 Sequence 4, Appl  
993 27 57.4 473 2 US-09-828-995B-20 Sequence 20, Appl  
994 27 57.4 474 2 US-09-828-995B-17 Sequence 17, Appl  
995 27 57.4 474 2 US-09-848-832-3 Sequence 3, Appl  
996 27 57.4 475 2 US-09-740-002-25 Sequence 25, Appl  
997 27 57.4 475 2 US-09-740-002-27 Sequence 27, Appl  
998 27 57.4 476 2 US-08-378-938-10 Sequence 10, Appl  
999 27 57.4 476 2 US-08-487-550-4 Sequence 4, Appl  
1000 27 57.4 476 2 US-08-487-550-12 Sequence 12, Appl

## ALIGNMENTS

RESULT 1  
US-08-247-904B-10  
Sequence 10, Application US/08247904B  
Patent No. 5981699  
GENERAL INFORMATION:  
APPLICANT: Rolfe, Mark  
APPLICANT: Eckstein, Jens W.  
APPLICANT: Draetta, Giulio  
TITLE OF INVENTION: Human Ubiquitin Conjugating Enzyme  
NUMBER OF SEQUENCES: 17  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Foley, Hoag & Eliot  
STREET: One Post Office Square  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: ASCII(text)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/247, 904B  
FILING DATE: 23-MAY-1994  
CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: Vincent, Matthew P.  
REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: MIV-029.01  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 832-7000  
TELEFAX: (617) 832-7000  
INFORMATION FOR SEQ ID NO: 10:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 158 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-247-904B-10  
Query Match 100.0%; Score 47; DB 1; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.21;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LTNLTGLYNL 9  
Db 93 LTNLTGLYNL 101

RESULT 2  
US-08-767-942A-19  
Sequence 19, Application US/08767942A  
Patent No. 6068982  
GENERAL INFORMATION:  
APPLICANT: Rolfe, Mark  
APPLICANT: Chiu, M. Isabel  
APPLICANT: Berlin, Vivian  
APPLICANT: Damagnez, Veronique  
APPLICANT: Draetta, Giulio  
APPLICANT: Guillaume, Coctarel  
TITLE OF INVENTION: UBIQUITIN CONJUGATING ENZYMES  
NUMBER OF SEQUENCES: 45  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FOLEY, HOAG & ELIOT LLP  
STREET: One Post Office Square  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02109-2170  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/767, 942A  
FILING DATE: 17-DEC-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Vincent, Matthew P.  
REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: MIV-029.04  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-832-1000  
TELEFAX: 617-832-7000  
INFORMATION FOR SEQ ID NO: 19:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 158 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-767-942A-19  
Query Match 100.0%; Score 47; DB 2; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.21;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 LTNLTGLYNL 9  
Db 93 LTNLTGLYNL 101  
RESULT 3  
US-08-117-083-14  
Sequence 14, Application US/08117083  
Patent No. 5719054  
GENERAL INFORMATION:  
APPLICANT: Bournsnel, Michael E.  
APPLICANT: Ingalls, Stephen C.  
APPLICANT: Munro, Alan J.  
TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human  
NUMBER OF SEQUENCES: 70  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Walter H. Dreger  
STREET: 4 Embarcadero Center, Suite 3400  
CITY: San Francisco



STATE: CA  
COUNTRY: USA  
ZIP: 94111  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/117,083  
FILING DATE: 10-SEP-1993  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Dreger, Walter H.  
REGISTRATION NUMBER: 24,190  
REFERENCE/DOCKET NUMBER: A-58783  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-781-1989  
TELEFAX: 415-398-3249  
TELEX: 910 277299  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 271 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
NAME/KEY: Protein  
LOCATION: 1..271  
OTHER INFORMATION: /note="Xaa refers to stop codon in  
OTHER INFORMATION: the open reading frame."  
US-08-117-083-14

Query Match 100.0%; Score 47; DB 1; Length 271;  
Best Local Similarity 100.0%; Pred. No. 0.38;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CY 1 LNTGTYNL 9  
DB 94 LNTGTYNL 102

RESULT 4  
US-09-485-885-21  
Sequence 21, Application US/09485885  
Patent No. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabezon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Bernarde  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 21  
LENGTH: 278  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-485-885-21

Query Match 100.0%; Score 47; DB 2; Length 278;  
Best Local Similarity 100.0%; Pred. No. 0.4;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CY 1 LNTGTYNL 9  
DB 204 LNTGTYNL 212

RESULT 5  
US-09-485-885-23  
Sequence 23, Application US/09485885  
Patent No. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabezon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Bernarde  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 23  
LENGTH: 383  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-485-885-23

Query Match 100.0%; Score 47; DB 2; Length 383;  
Best Local Similarity 100.0%; Pred. No. 0.56;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CY 1 LNTGTYNL 9  
DB 204 LNTGTYNL 212

RESULT 6  
US-08-159-339A-1173  
Sequence 1173, Application US/08159339A  
Patent No. 6037135  
GENERAL INFORMATION:  
APPLICANT: Kubo, Ralph T.  
APPLICANT: Grey, Howard M.  
APPLICANT: Sette, Alessandro  
APPLICANT: Celis, Bjarne  
TITLE OF INVENTION: HLA Binding peptides and Their  
NUMBER OF SEQUENCES: 1254  
CORRESPONDENCE ADDRESS:  
ADDRESSES: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/159,339A  
FILING DATE: 28-NOV-1993  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/926,666  
FILING DATE: 07-AUG-1992  
APPLICATION NUMBER: US 08/027,746  
FILING DATE: 05-MAR-1993

APPLICATION NUMBER: US 08/103,396  
FILING DATE: 06-AUG-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Weber, Ellen Leuwer  
REGISTRATION NUMBER: 32,762  
REFERENCE/DOCKET NUMBER: 018623-005030US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
TELEX:  
INFORMATION FOR SEQ ID NO: 1173:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 11 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-159-339A-1173

Query Match 78.7%; Score 37; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 0.9;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LNTGTLN 7  
|||||  
DB 5 LNTGTLN 11

RESULT 7  
US-09-902-540-14220  
Sequence 14220, Application US/09902540  
Patent No. 6833447  
GENERAL INFORMATION:  
APPLICANT: Goldman, Barry S.  
APPLICANT: Hinkle, Gregory J.  
APPLICANT: Slater, Steven C.  
APPLICANT: Wiegand, Roger C.  
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof  
FILE REFERENCE: 38-10(15849)B  
CURRENT APPLICATION NUMBER: US/09/902,540  
CURRENT FILING DATE: 2001-07-10  
PRIOR APPLICATION NUMBER: 60/217,883  
PRIOR FILING DATE: 2000-07-10  
NUMBER OF SEQ ID NOS: 16825  
SEQ ID NO 14220  
LENGTH: 859  
TYPE: PRT  
ORGANISM: Myxococcus xanthus  
US-09-902-540-14220

Query Match 78.7%; Score 37; DB 2; Length 859;  
Best Local Similarity 77.8%; Pred. No. 1e+02;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 LNTGTLN 9  
|||||  
DB 681 LTGTGFTNL 689

RESULT 8  
US-09-248-796A-28163  
Sequence 28163, Application US/09248796A  
Patent No. 6747137  
GENERAL INFORMATION:  
APPLICANT: Keith Weinstein et al  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN  
FILE REFERENCE: 107196.132  
CURRENT APPLICATION NUMBER: US/09/248,796A  
CURRENT FILING DATE: 1999-02-12  
PRIOR APPLICATION NUMBER: US 60/074,725  
PRIOR FILING DATE: 1998-02-13  
PRIOR APPLICATION NUMBER: US 60/096,409

PRIOR FILING DATE: 1998-08-13  
NUMBER OF SEQ ID NOS: 28208  
SEQ ID NO 28163  
LENGTH: 209  
TYPE: PRT  
ORGANISM: Candida albicans  
US-09-248-796A-28163

Query Match 74.5%; Score 35; DB 2; Length 209;  
Best Local Similarity 62.5%; Pred. No. 53;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

OY 1 LNTGTLN 8  
|||:|:  
DB 137 MTNSGTLN 144

RESULT 9  
US-09-902-540-11517  
Sequence 11517, Application US/09902540  
Patent No. 6833447  
GENERAL INFORMATION:  
APPLICANT: Goldman, Barry S.  
APPLICANT: Hinkle, Gregory J.  
APPLICANT: Slater, Steven C.  
APPLICANT: Wiegand, Roger C.  
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof  
FILE REFERENCE: 38-10(15849)B  
CURRENT APPLICATION NUMBER: US/09/902,540  
CURRENT FILING DATE: 2001-07-10  
PRIOR APPLICATION NUMBER: 60/217,883  
PRIOR FILING DATE: 2000-07-10  
NUMBER OF SEQ ID NOS: 16825  
SEQ ID NO 11517  
LENGTH: 329  
TYPE: PRT  
ORGANISM: Myxococcus xanthus  
US-09-902-540-11517

Query Match 74.5%; Score 35; DB 2; Length 329;  
Best Local Similarity 85.7%; Pred. No. 87;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 3 NTGTLN 9  
|||||  
DB 207 NTGTLN 213

RESULT 10  
US-09-248-796A-18342  
Sequence 18342, Application US/09248796A  
Patent No. 6747137  
GENERAL INFORMATION:  
APPLICANT: Keith Weinstein et al  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN  
FILE REFERENCE: 107196.132  
CURRENT APPLICATION NUMBER: US/09/248,796A  
CURRENT FILING DATE: 1999-02-12  
PRIOR APPLICATION NUMBER: US 60/074,725  
PRIOR FILING DATE: 1998-02-13  
PRIOR APPLICATION NUMBER: US 60/096,409  
PRIOR FILING DATE: 1998-08-13  
NUMBER OF SEQ ID NOS: 28208  
SEQ ID NO 18342  
LENGTH: 818  
TYPE: PRT  
ORGANISM: Candida albicans  
US-09-248-796A-18342

Query Match 74.5%; Score 35; DB 2; Length 818;  
Best Local Similarity 75.0%; Pred. No. 2.4e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 NTGLYNL 8  
|||:|  
Db 294 LTNOGATN 301

RESULT 11  
US-09-248-796A-19484  
; Sequence 19484, Application US/09248796A  
; Patent No. 6747137  
; GENERAL INFORMATION:  
; APPLICANT: Keith Weinstock et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS  
; FILE REFERENCE: 107196.132  
; CURRENT APPLICATION NUMBER: US/09/248,796A  
; CURRENT FILING DATE: 1999-02-12  
; PRIOR APPLICATION NUMBER: US 60/074,725  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: US 60/096,409  
; PRIOR FILING DATE: 1998-08-13  
; NUMBER OF SEQ ID NOS: 28208  
; SEQ ID NO 19484  
; LENGTH: 67  
; TYPE: PRT  
; ORGANISM: Candida albicans  
US-09-248-796A-19484

Query Match 72.3%; Score 34; DB 2; Length 67;  
Best Local Similarity 85.7%; Pred. No. 24;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 NTGLYNL 9  
|||:|  
Db 38 NTGLFNL 44

RESULT 12  
US-10-104-047-3590  
; Sequence 3590, Application US/10104047  
; Patent No. 6943241  
; GENERAL INFORMATION:  
; APPLICANT: HELIX RESEARCH INSTITUTE  
; TITLE OF INVENTION: No. 6943241el full length cDNA  
; FILE REFERENCE: H1-A0105  
; CURRENT APPLICATION NUMBER: US/10/104,047  
; CURRENT FILING DATE: 2002-03-25  
; PRIOR APPLICATION NUMBER:  
; PRIOR FILING DATE:  
; NUMBER OF SEQ ID NOS: 4096  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 3590  
; LENGTH: 258  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-104-047-3590

Query Match 72.3%; Score 34; DB 2; Length 258;  
Best Local Similarity 85.7%; Pred. No. 1e+02;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 NTGLYNL 9  
|||:|  
Db 57 NTGLFNL 63

RESULT 13  
US-09-949-016-8076  
; Sequence 8076, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 8076  
; LENGTH: 736  
; TYPE: PRT  
; ORGANISM: Human  
US-09-949-016-8076

QY 3 NTGLYNL 9  
|||:|  
Db 593 NTGLFNL 599

RESULT 14  
US-09-079-030-215  
; Sequence 215, Application US/09079030  
; Patent No. 6635623  
; GENERAL INFORMATION:  
; APPLICANT: Guevera, Jr., Juan G.  
; APPLICANT: Hoogveen, Ron C.  
; TITLE OF INVENTION: LIPOPROTEINS AS NUCLEIC ACID DELIVERY  
; TITLE OF INVENTION: VECTORS FOR TRANSFECTION OF EUKARYOTIC CELLS  
; NUMBER OF SEQUENCES: 229  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Arnold, White & Durkee  
; STREET: P.O. Box 4433  
; CITY: Houston  
; STATE: Texas  
; COUNTRY: USA  
; ZIP: 77210  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/079,030  
; FILING DATE: Concurrently Herewith  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: McMillian, Nabeela R.  
; REGISTRATION NUMBER: P-43,363  
; REFERENCE/DOCKET NUMBER: ARAG:003  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 512/418-1000  
; TELEFAX: 512/474-7577  
; INFORMATION FOR SEQ ID NO: 215:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 773 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
US-09-079-030-215

Query Match 72.3%; Score 34; DB 2; Length 773;  
Best Local Similarity 85.7%; Pred. No. 3.4e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 TMTGLYN 8  
|||  
Db 602 TMTGLYN 608

RESULT 15  
US-09-079-030-216  
; Sequence 216, Application US/09079030  
; Patent No. 6635623  
; GENERAL INFORMATION:  
; APPLICANT: Guevera, Jr., Juan G.  
; APPLICANT: Hoogerveen, Ron C.  
; APPLICANT: Moore, Paul J.  
; TITLE OF INVENTION: LIPOPROTEINS AS NUCLEIC ACID DELIVERY  
; NUMBER OF SEQUENCES: 229  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Arnold, White & Durkee  
; STREET: P.O. Box 4433  
; CITY: Houston  
; STATE: Texas  
; COUNTRY: USA  
; ZIP: 77210  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: IBM PC compatible  
; SOFTWARE: Patent in Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/079,030  
; FILING DATE: Concurrently Herewith  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: McMillian, Nabeeja R.  
; REGISTRATION NUMBER: P-43,363  
; REFERENCE/DOCKET NUMBER: ARAG:003  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 512/418-3000  
; TELEFAX: 512/474-7577  
; INFORMATION FOR SEQ ID NO: 216:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 785 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
US-09-079-030-216

Query Match 72.3%; Score 34; DB 2; Length 785;  
Best Local Similarity 85.7%; Pred. No. 3.5e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 TMTGLYN 8  
|||  
Db 614 TMTGLYN 620

RESULT 16  
US-10-281-867-2  
; Sequence 2, Application US/10281867  
; Patent No. 6953778  
; GENERAL INFORMATION:  
; APPLICANT: Carroll, Joseph M.  
; TITLE OF INVENTION: Methods and compositions for the  
; FILE REFERENCE: diagnosis and treatment of hematologic disorders using 2777  
; CURRENT APPLICATION NUMBER: US/10/281,867  
; PRIOR FILING DATE: 2002-10-28  
; PRIOR APPLICATION NUMBER: 60/335,251  
; PRIOR FILING DATE: 2001-10-31  
; NUMBER OF SEQ ID NOS: 3  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2  
; LENGTH: 836

; TYPE: PRT  
; ORGANISM: Homo sapien  
US-10-281-867-2

Query Match 72.3%; Score 34; DB 2; Length 836;  
Best Local Similarity 85.7%; Pred. No. 3.7e+02;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 NTGLYNL 9  
|||  
Db 588 NTGLFNL 594

RESULT 17  
US-09-949-016-7193  
; Sequence 7193, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 7193  
; LENGTH: 245  
; TYPE: PRT  
; ORGANISM: Human  
US-09-949-016-7193

Query Match 70.2%; Score 33; DB 2; Length 245;  
Best Local Similarity 66.7%; Pred. No. 1.5e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 LNTTGLYNL 9  
|||  
Db 52 LNTTGLYRI 60

RESULT 18  
US-09-543-681A-5138  
; Sequence 5138, Application US/09543681A  
; Patent No. 6605709  
; GENERAL INFORMATION:  
; APPLICANT: GARY BRETON  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS  
; FILE REFERENCE: DIAGNOSTICS AND THERAPEUTICS  
; CURRENT APPLICATION NUMBER: US/09/543,681A  
; CURRENT FILING DATE: 2000-04-05  
; PRIOR APPLICATION NUMBER: US 60/128,706  
; PRIOR FILING DATE: 1999-04-09  
; NUMBER OF SEQ ID NOS: 8344  
; SEQ ID NO 5138  
; LENGTH: 263  
; TYPE: PRT  
; ORGANISM: Proteus mirabilis  
US-09-543-681A-5138

Query Match 70.2%; Score 33; DB 2; Length 263;  
Best Local Similarity 85.7%; Pred. No. 1.6e+02;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 NTGLYNL 9  
|||

Db 113 NTGLYSL 119

RESULT 19  
US-08-249-112-3  
Sequence 3, Application US/08249112  
Patent No. 5527703  
GENERAL INFORMATION:  
APPLICANT: Gully, Doris F.  
APPLICANT: Arena, Joseph P.  
APPLICANT: Liu, Ken K.  
APPLICANT: Vasiliadis, Demetrios  
TITLE OF INVENTION: DNA ENCODING GLUTAMATE GATED CHLORIDE  
TITLE OF INVENTION: CHANNELS  
NUMBER OF SEQUENCES: 5  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Wallen, John W.  
STREET: 126 E. Lincoln Ave., P.O. Box 2000  
CITY: Rahway  
STATE: New Jersey  
COUNTRY: U.S.A.  
ZIP: 07065  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/249,112  
FILING DATE: 25-MAY-1994  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Wallen, John W.  
REGISTRATION NUMBER: 35,403  
REFERENCE/DOCKET NUMBER: 19194  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (908) 594-3905  
TELEFAX: (908) 594-4720  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 510 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-249-112-3

Query Match 70.2%; Score 33; DB 1; Length 510;  
Best Local Similarity 62.5%; Pred. No. 3.4e+02;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 LINTGLYN 8  
:||||:|:  
Db 271 VINTGIYS 278

RESULT 20  
PCT-US95-06556-3  
Sequence 3, Application PC/TUS9506556  
GENERAL INFORMATION:  
APPLICANT: Gully, Doris F.  
APPLICANT: Arena, Joseph P.  
APPLICANT: Liu, Ken K.  
APPLICANT: Vasiliadis, Demetrios  
TITLE OF INVENTION: DNA ENCODING GLUTAMATE GATED CHLORIDE  
TITLE OF INVENTION: CHANNELS  
NUMBER OF SEQUENCES: 5  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Wallen, John W.  
STREET: 126 E. Lincoln Ave., P.O. Box 2000  
CITY: Rahway  
STATE: New Jersey  
COUNTRY: U.S.A.

ZIP: 07065  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/06556  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/249,112  
FILING DATE: 25-MAY-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Wallen, John W.  
REGISTRATION NUMBER: 35,403  
REFERENCE/DOCKET NUMBER: 19194  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (908) 594-3905  
TELEFAX: (908) 594-4720  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 510 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
PCT-US95-06556-3

Query Match 70.2%; Score 33; DB 4; Length 510;  
Best Local Similarity 62.5%; Pred. No. 3.4e+02;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 LINTGLYN 8  
:||||:|:  
Db 271 VINTGIYS 278

RESULT 21  
US-09-270-767-48833  
Sequence 48833, Application US/09270767  
Patent No. 6703491  
GENERAL INFORMATION:  
APPLICANT: Homburger et al.  
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
FILE REFERENCE: File Reference: 7326-094  
CURRENT APPLICATION NUMBER: US/09/270,767  
CURRENT FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 62517  
SOFTWARE: Patent Ver. 2.0  
SEQ ID NO 48833  
LENGTH: 534  
TYPE: PRT  
ORGANISM: Drosophila melanogaster  
FEATURE:  
OTHER INFORMATION: Xaa means any amino acid  
US-09-270-767-48833

Query Match 70.2%; Score 33; DB 2; Length 534;  
Best Local Similarity 85.7%; Pred. No. 3.5e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 TWTGLYN 8  
:|||||:  
Db 122 TRTGLYN 128

RESULT 22  
US-08-841-483-2  
Sequence 2, Application US/08841483B  
Patent No. 5976875  
GENERAL INFORMATION:  
APPLICANT: Prescott, Steven M.

```

; APPLICANT: Bunting, Michaeline
; APPLICANT: Tang, Wen
; TITLE OF INVENTION: Diacylglycerol Kinase Isoforms Epsilon and Zeta and
; TITLE OF INVENTION: Methods of Use Thereof
; FILE REFERENCE: 2037.2.1a
; CURRENT APPLICATION NUMBER: US/08/841,483B
; CURRENT FILING DATE: 1997-04-22
; EARLIER APPLICATION NUMBER: 60/016,210
; EARLIER FILING DATE: 1996-04-22
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 567
; TYPE: PRT
; ORGANISM: Homo sapiens
US-08-841-483-2

Query Match          70.2%; Score 33; DB 1; Length 567;
Best Local Similarity 66.7%; Pred. No. 3.8e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Oy      1 LNTGLYNL 9
Db      354 VTNGGYNL 362

RESULT 23
US-09-382-911-2
; Sequence 2, Application US/09382911
; Patent No. 6221658
; GENERAL INFORMATION:
; APPLICANT: Prescott, Steven M.
; APPLICANT: Bunting, Michaeline
; APPLICANT: Tang, Wen
; TITLE OF INVENTION: Diacylglycerol Kinase Isoforms Epsilon and Zeta and
; TITLE OF INVENTION: Methods of Use Thereof
; FILE REFERENCE: 2037.2.1a
; CURRENT APPLICATION NUMBER: US/09/382,911
; CURRENT FILING DATE: 1999-08-25
; PRIOR APPLICATION NUMBER: 08/841,483
; PRIOR FILING DATE: 1997-04-22
; PRIOR APPLICATION NUMBER: 60/016,210
; PRIOR FILING DATE: 1996-04-22
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 567
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-382-911-2

Query Match          70.2%; Score 33; DB 2; Length 567;
Best Local Similarity 66.7%; Pred. No. 3.8e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Oy      1 LNTGLYNL 9
Db      354 VTNGGYNL 362

RESULT 24
US-09-949-016-6844
; Sequence 6844, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
```

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; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6844
; LENGTH: 632
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-6844

Query Match          70.2%; Score 33; DB 2; Length 632;
Best Local Similarity 66.7%; Pred. No. 4.2e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Oy      1 LNTGLYNL 9
Db      378 LITGLYRI 386

RESULT 25
US-09-252-991A-27011
; Sequence 27011, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 27011
; LENGTH: 789
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-27011

Query Match          70.2%; Score 33; DB 2; Length 789;
Best Local Similarity 85.7%; Pred. No. 5.4e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy      3 NTGLYNL 9
Db      737 NAGLYNL 743

RESULT 26
US-09-056-556-204
; Sequence 204, Application US/09056556
; Patent No. 6350456
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, David C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE PREVENTION AND
; NUMBER OF SEQUENCES: 241
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
```

COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/056,556  
FILING DATE: 07-APR-1998  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Maki, David J.  
REGISTRATION NUMBER: 31,392  
REFERENCE/DOCKET NUMBER: 210121.457  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 204:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 943 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
US-09-056-556-204

Query Match 70.2%; Score 33; DB 2; Length 943;  
Best Local Similarity 85.7%; Pred. No. 6.6e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 TMTGLYN 8  
Db 646 TMTGSYN 652

RESULT 27  
US-09-072-596-199  
Sequence 199, Application US/09072596  
Patent No. 6458366  
GENERAL INFORMATION:  
APPLICANT: Reed, Steven G.  
APPLICANT: Skeiky, Yasir A.W.  
APPLICANT: Dillon, Davin C.  
APPLICANT: Campos-Neto, Antonio  
APPLICANT: Houghton, Raymond  
APPLICANT: Vedvick, Thomas S.  
APPLICANT: Twardzik, Daniel R.  
APPLICANT: Lodes, Michael J.  
APPLICANT: Hendrickson, Ronald C.  
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF  
NUMBER OF SEQUENCES: 350  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SEED and BERRY LLP  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98104-7092  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/072,596  
FILING DATE: 05-MAY-1998  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Maki, David J.  
REGISTRATION NUMBER: 31,392  
REFERENCE/DOCKET NUMBER: 210121.417C9  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 199:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 943 amino acids

TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
US-09-072-596-199

Query Match 70.2%; Score 33; DB 2; Length 943;  
Best Local Similarity 85.7%; Pred. No. 6.6e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 TMTGLYN 8  
Db 646 TMTGSYN 652

RESULT 28  
US-09-477-135A-131  
Sequence 131, Application US/09477135A  
Patent No. 6572865  
GENERAL INFORMATION:  
APPLICANT: Nano, Francis  
TITLE OF INVENTION: Mycobacterium Tuberculosis DNA Sequences Encoding  
TITLE OF INVENTION: Immunostimulatory Peptides  
FILE REFERENCE: 52888  
CURRENT APPLICATION NUMBER: US/09/477,135A  
PRIOR FILING DATE: 2000-01-03  
PRIOR APPLICATION NUMBER: 08990823  
PRIOR FILING DATE: 1997-12-15  
PRIOR APPLICATION NUMBER: US 96/10375  
PRIOR FILING DATE: 1996-06-14  
PRIOR APPLICATION NUMBER: 60/000,254  
PRIOR FILING DATE: 1995-06-15  
NUMBER OF SEQ ID NOS: 169  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 131  
LENGTH: 943  
TYPE: PRT  
ORGANISM: Mycobacterium tuberculosis  
US-09-477-135A-131

Query Match 70.2%; Score 33; DB 2; Length 943;  
Best Local Similarity 85.7%; Pred. No. 6.6e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 TMTGLYN 8  
Db 753 TMTGSYN 759

RESULT 29  
US-09-072-967-204  
Sequence 204, Application US/09072967  
Patent No. 6592877  
GENERAL INFORMATION:  
APPLICANT: Reed, Steven G.  
APPLICANT: Skeiky, Yasir A.W.  
APPLICANT: Dillon, Davin C.  
APPLICANT: Campos-Neto, Antonio  
APPLICANT: Houghton, Raymond  
APPLICANT: Vedvick, Thomas S.  
APPLICANT: Twardzik, Daniel R.  
APPLICANT: Lodes, Michael J.  
APPLICANT: Hendrickson, Ronald C.  
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY  
TITLE OF INVENTION: AND DIAGNOSIS OF TUBERCULOSIS  
NUMBER OF SEQUENCES: 355  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SEED and BERRY LLP  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98104-7092  
COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/072.967  
FILING DATE: 05-MAY-1998  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Makl, David J.  
REGISTRATION NUMBER: 31,392  
REFERENCE/DOCKET NUMBER: 210121.411C9  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 204:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 943 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
US-09-072-967-204

Query Match 70.2%; Score 33; DB 2; Length 943;  
Best Local Similarity 85.7%; Pred. No. 6.6e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 TMTGLYN 8  
Db 646 TMTGSYN 652

RESULT 30  
US-10-193-002-199  
Sequence 199, Application US/10193002  
Patent No. 6949246  
GENERAL INFORMATION:  
APPLICANT: Reed, Steven G.  
Skeiky, Yasir A.W.  
Dillon, Davin C.  
Campos-Neto, Antonio  
Houghton, Raymond  
Vedvick, Thomas S.  
Twardzik, Daniel R.  
Lodes, Michael J.  
Hendrickson, Ronald C.  
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF  
TUBERCULOSIS  
NUMBER OF SEQUENCES: 350  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SEED and BERRY LLP  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98104-7092  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/193.002  
FILING DATE: 10-Jul-2002  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/072.596  
FILING DATE: 05-MAY-1998  
ATTORNEY/AGENT INFORMATION:  
NAME: Makl, David J.  
REGISTRATION NUMBER: 31,392  
REFERENCE/DOCKET NUMBER: 210121.417C9  
TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 199:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 943 amino acids  
TYPE: amino acid  
STRANDEDNESS: <Unknown>  
TOPOLOGY: linear  
SEQUENCE DESCRIPTION: SEQ ID NO: 199:  
US-10-193-002-199

Query Match 70.2%; Score 33; DB 2; Length 943;  
Best Local Similarity 85.7%; Pred. No. 6.6e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 TMTGLYN 8  
Db 646 TMTGSYN 652

RESULT 31  
US-10-084-843-204  
Sequence 204, Application US/10084843  
Patent No. 6962710  
GENERAL INFORMATION:  
APPLICANT: Reed, Steven G.  
Skeiky, Yasir A.W.  
Dillon, Davin C.  
Campos-Neto, Antonio  
Houghton, Raymond  
Vedvick, Thomas S.  
Twardzik, Daniel R.  
Lodes, Michael J.  
Hendrickson, Ronald C.  
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY  
AND DIAGNOSIS OF TUBERCULOSIS  
NUMBER OF SEQUENCES: 355  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SEED and BERRY LLP  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98104-7092  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/084.843  
FILING DATE: 25-Feb-2002  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/072.967  
FILING DATE: 05-MAY-1998  
ATTORNEY/AGENT INFORMATION:  
NAME: Makl, David J.  
REGISTRATION NUMBER: 31,392  
REFERENCE/DOCKET NUMBER: 210121.411C9  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 204:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 943 amino acids  
TYPE: amino acid  
STRANDEDNESS: <Unknown>  
TOPOLOGY: linear  
SEQUENCE DESCRIPTION: SEQ ID NO: 204:  
US-10-084-843-204

Query Match 70.2%; Score 33; DB 2; Length 943;



Best Local Similarity 85.7%; Pred. No. 6.6e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 LTTTGLYN 8  
|||:|  
Db 646 LTTTGSYN 652

## RESULT 32

US-09-252-991A-23237  
; Sequence 23237, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; PRIOR FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 23237  
; LENGTH: 1233  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-23237

Query Match 70.2%; Score 33; DB 2; Length 1233;  
Best Local Similarity 75.0%; Pred. No. 8.8e+02;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 LTTTGLYN 8  
|||:|  
Db 214 LTTDTGLYS 221

## RESULT 33

US-08-993-359-32  
; Sequence 32, Application US/08993359A  
; Patent No. 6039942  
; GENERAL INFORMATION:  
; APPLICANT: Laessen, Soren F.  
; APPLICANT: Bech, Lisbeth  
; APPLICANT: Ohmann, Anders  
; APPLICANT: Breinholt, Jens  
; APPLICANT: Fuglaang, Claus C.  
; APPLICANT: Ostergaard, Peter R.  
; TITLE OF INVENTION: Phytase Polypeptides  
; FILE REFERENCE: 5383.500-US  
; CURRENT APPLICATION NUMBER: US/08/993,359A  
; PRIOR FILING DATE: 1997-12-18  
; PRIOR APPLICATION NUMBER: 1480/96  
; EARLIER FILING DATE: 1996-12-20  
; EARLIER APPLICATION NUMBER: 1481/96  
; EARLIER FILING DATE: 1996-12-20  
; EARLIER APPLICATION NUMBER: 0301/97  
; EARLIER FILING DATE: 1997-03-18  
; EARLIER APPLICATION NUMBER: 0529/97  
; EARLIER FILING DATE: 1997-05-07  
; EARLIER APPLICATION NUMBER: 1388/97  
; EARLIER FILING DATE: 1997-12-01  
; EARLIER APPLICATION NUMBER: 60/046,082  
; EARLIER FILING DATE: 1997-05-09  
; NUMBER OF SEQ ID NOS: 32  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 32  
; LENGTH: 92  
; TYPE: PRT  
; ORGANISM: Schizopyllum sp.  
US-08-993-359-32

Query Match 68.1%; Score 32; DB 2; Length 92;  
Best Local Similarity 66.7%; Pred. No. 80;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 LTTTGLYNL 9  
|||:|  
Db 63 LTTTNTVNL 71

## RESULT 34

US-09-482-558A-32  
; Sequence 32, Application US/09482558A  
; Patent No. 6569659  
; GENERAL INFORMATION:  
; APPLICANT: Laessen, Soren F.  
; APPLICANT: Bech, Lisbeth  
; APPLICANT: Ohmann, Anders  
; APPLICANT: Breinholt, Jens  
; APPLICANT: Fuglaang, Claus C.  
; APPLICANT: Ostergaard, Peter R.  
; TITLE OF INVENTION: Phytase Polypeptides  
; FILE REFERENCE: 5383.500-US  
; CURRENT APPLICATION NUMBER: US/09/482,558A  
; PRIOR FILING DATE: 2000-01-13  
; PRIOR APPLICATION NUMBER: US/08/993,359  
; PRIOR FILING DATE: 1997-12-18  
; PRIOR APPLICATION NUMBER: 1480/96  
; PRIOR FILING DATE: 1996-12-20  
; PRIOR APPLICATION NUMBER: 1481/96  
; PRIOR FILING DATE: 1996-12-20  
; PRIOR APPLICATION NUMBER: 0301/97  
; PRIOR FILING DATE: 1997-03-18  
; PRIOR APPLICATION NUMBER: 0529/97  
; PRIOR FILING DATE: 1997-05-07  
; PRIOR APPLICATION NUMBER: 1388/97  
; PRIOR FILING DATE: 1997-12-01  
; PRIOR APPLICATION NUMBER: 60/046,082  
; PRIOR FILING DATE: 1997-05-09  
; NUMBER OF SEQ ID NOS: 32  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 32  
; LENGTH: 92  
; TYPE: PRT  
; ORGANISM: Schizopyllum sp.  
US-09-482-558A-32

Query Match 68.1%; Score 32; DB 2; Length 92;  
Best Local Similarity 66.7%; Pred. No. 80;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 LTTTGLYNL 9  
|||:|  
Db 63 LTTTNTVNL 71

## RESULT 35

US-09-270-767-38858  
; Sequence 38858, Application US/09270767  
; Patent No. 6703491  
; GENERAL INFORMATION:  
; APPLICANT: Homburger et al.  
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
; FILE REFERENCE: File Reference: 7326-094  
; CURRENT APPLICATION NUMBER: US/09/270,767  
; CURRENT FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 62517  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 38858  
; LENGTH: 157  
; TYPE: PRT  
; ORGANISM: Drosophila melanogaster  
; FEATURE:

OTHER INFORMATION: Xaa means any amino acid  
US-09-270-767-38858

Query Match 68.1%; Score 32; DB 2; Length 157;  
Best Local Similarity 66.7%; Pred. No. 1.4e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 1 LTNGLYNL 9  
|||:|  
Db 105 LTNLPHNL 113

RESULT 36

US-09-270-767-54075  
Sequence 54075, Application US/09270767  
Patent No. 6703491  
GENERAL INFORMATION:  
APPLICANT: Homburger et al.  
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
FILE REFERENCE: File Reference: 7326-094  
CURRENT APPLICATION NUMBER: US/09/270,767  
CURRENT FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 62517  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 54075  
LENGTH: 157  
TYPE: PRT  
ORGANISM: Drosophila melanogaster  
FEATURE:  
OTHER INFORMATION: Xaa means any amino acid  
US-09-270-767-54075

Query Match 68.1%; Score 32; DB 2; Length 157;  
Best Local Similarity 66.7%; Pred. No. 1.4e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 1 LTNGLYNL 9  
|||:|  
Db 105 LTNLPHNL 113

RESULT 37

US-09-902-540-10343  
Sequence 10343, Application US/09902540  
Patent No. 6833447  
GENERAL INFORMATION:  
APPLICANT: Goldman, Barry S.  
APPLICANT: Hinkle, Gregory J.  
APPLICANT: Slater, Steven C.  
APPLICANT: Wiegand, Roger C.  
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof  
FILE REFERENCE: 38-10(115849)B  
CURRENT APPLICATION NUMBER: US/09/902,540  
CURRENT FILING DATE: 2001-07-10  
PRIOR APPLICATION NUMBER: 60/217,883  
PRIOR FILING DATE: 2000-07-10  
NUMBER OF SEQ ID NOS: 16825  
SEQ ID NO 10343  
LENGTH: 194  
TYPE: PRT  
ORGANISM: Myxococcus xanthus  
US-09-902-540-10343

Query Match 68.1%; Score 32; DB 2; Length 194;  
Best Local Similarity 66.7%; Pred. No. 1.8e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 LTNGLYNL 9  
|||:|  
Db 135 LTNGLYSL 143

RESULT 38

US-08-549-515-7  
Sequence 7, Application US/08549515  
Patent No. 6054123  
GENERAL INFORMATION:  
APPLICANT: Loosmore, Sheena M  
APPLICANT: Klein, Michel H  
TITLE OF INVENTION: Haemophilus influenzae  
TITLE OF INVENTION: dimethylsulphoxide Reductase Enzyme  
NUMBER OF SEQUENCES: 12  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Sim & McBurney  
STREET: Suite 701, 330 University Avenue  
CITY: Toronto  
STATE: Ontario  
COUNTRY: Canada  
ZIP: M5G 1R7  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/549,515  
FILING DATE: 27-OCT-1995  
CLASSIFICATION: 536  
ATTORNEY/AGENT INFORMATION:  
NAME: Stewart, Michael I  
REGISTRATION NUMBER: 24,973  
REFERENCE/DOCKET NUMBER: 1038-522  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (416) 595-1155  
TELEFAX: (416) 595-1163  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 279 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-549-515-7

Query Match 68.1%; Score 32; DB 2; Length 279;  
Best Local Similarity 85.7%; Pred. No. 2.7e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 3 NTGLYNL 9  
|||:|  
Db 2 NTGLYEL 8

RESULT 39  
US-10-101-464A-717  
Sequence 717, Application US/10101464A  
Patent No. 6768041  
GENERAL INFORMATION:  
APPLICANT: Strabala, Timothy  
APPLICANT: Nieuwenhuizen, Nicolaas  
APPLICANT: Higgins, Colleen M.  
TITLE OF INVENTION: Compositions isolated from Plant Cells  
and Their Use in the Modification of Plant Cell Signaling  
FILE REFERENCE: 11000.1020c2  
CURRENT APPLICATION NUMBER: US/10/101,464A  
CURRENT FILING DATE: 2002-03-18  
PRIOR APPLICATION NUMBER: 09/704,302  
PRIOR FILING DATE: 2000-11-01  
PRIOR APPLICATION NUMBER: 09/228,986  
PRIOR FILING DATE: 1999-01-12  
PRIOR APPLICATION NUMBER: 60/162,866  
PRIOR FILING DATE: 1999-11-01  
PRIOR APPLICATION NUMBER: PCT/US00/00724  
NUMBER OF SEQ ID NOS: 989  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 717

LENGTH: 304  
TYPE: PRT  
ORGANISM: Pinus radiata  
US-10-101-464A-717

Query Match 68.1%; Score 32; DB 2; Length 304;  
Best Local Similarity 100.0%; Pred. No. 3e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 TGLYNL 9  
DB 135 TGLYNL 140

RESULT 40  
US-09-015-296-3  
Sequence 3, Application US/09015296  
Patent No. 6103471  
GENERAL INFORMATION:  
APPLICANT: Bandman, Olga  
APPLICANT: Lal, Preeti  
APPLICANT: Corley, Neil C.  
TITLE OF INVENTION: HUMAN BETA-ALANINE-PYRUVATE  
TITLE OF INVENTION: AMINOTRANSFERASE  
NUMBER OF SEQUENCES: 3  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/015,296  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J.  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0467 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650-855-0555  
TELEFAX: 650-845-4166  
TELEX:  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 512 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: GenBank  
CLONE: 1944136  
US-09-015-296-3

Query Match 68.1%; Score 32; DB 2; Length 512;  
Best Local Similarity 55.6%; Pred. No. 5.2e+02;  
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 LTNVGIYKM 9  
DB 205 LTNVGIYKM 213

RESULT 41

US-09-593-722-3  
Sequence 3, Application US/09593722  
Patent No. 6416755  
GENERAL INFORMATION:  
APPLICANT: Bandman, Olga  
APPLICANT: Lal, Preeti  
APPLICANT: Corley, Neil C.

TITLE OF INVENTION: HUMAN BETA-ALANINE-PYRUVATE  
TITLE OF INVENTION: AMINOTRANSFERASE

NUMBER OF SEQUENCES: 3  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94304

COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/593,722

FILING DATE: 13-Jun-2000  
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/015,296

FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J.

REGISTRATION NUMBER: 36,749

REFERENCE/DOCKET NUMBER: PF-0467 US

TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650-855-0555

TELEFAX: 650-845-4166

TELEX: <Unknown>

INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:

LENGTH: 512 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

IMMEDIATE SOURCE:  
LIBRARY: GenBank

CLONE: 1944136  
US-09-593-722-3

Query Match 68.1%; Score 32; DB 2; Length 512;  
Best Local Similarity 55.6%; Pred. No. 5.2e+02;  
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 LTNVGIYKM 9  
DB 205 LTNVGIYKM 213

RESULT 42  
US-09-248-796A-19403  
Sequence 19403, Application US/09248796A  
Patent No. 6747137

GENERAL INFORMATION:

APPLICANT: Keith Weinstein et al

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN

TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 107196.132

CURRENT APPLICATION NUMBER: US/09/248,796A

CURRENT FILING DATE: 1999-02-12

PRIOR APPLICATION NUMBER: US 60/074,725

PRIOR FILING DATE: 1998-02-13

PRIOR APPLICATION NUMBER: US 60/096,409

PRIOR FILING DATE: 1998-08-13

NUMBER OF SEQ ID NOS: 28208  
SEQ ID NO 19403  
LENGTH: 631  
TYPE: PRT  
ORGANISM: Candida albicans  
US-09-248-796A-19403

Query Match 68.1%; Score 32; DB 2; Length 631;  
Best Local Similarity 66.7%; Pred. No. 6.5e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 NTGTYLNL 9  
Db 263 LTDSGLYRL 271

RESULT 43  
US-09-747-259-18  
Sequence 18, Application US/09747259  
Patent No. 6569645  
GENERAL INFORMATION:  
APPLICANT: Genentech, Inc.  
APPLICANT: Chen, Jian  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Fong, Sherman  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul  
APPLICANT: Grimaldi, Christopher  
APPLICANT: Gurney, Austin  
APPLICANT: Li, Hanzhong  
APPLICANT: Hillan, Kenneth  
APPLICANT: Tumas, Daniel  
APPLICANT: Vanlookeren, Menno  
APPLICANT: Vandlen, Richard  
APPLICANT: Watanabe, Colin  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William  
APPLICANT: Yansura, Daniel  
TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF  
FILE REFERENCE: P1381R1C1P1(US)  
CURRENT APPLICATION NUMBER: US/09/747,259  
CURRENT FILING DATE: 2000-12-20  
PRIOR APPLICATION NUMBER: US 09/311,832  
PRIOR FILING DATE: 1999-05-14  
PRIOR APPLICATION NUMBER: US 60/172,096  
PRIOR FILING DATE: 1999-12-23  
PRIOR APPLICATION NUMBER: PCT/US99/31274  
PRIOR FILING DATE: 1999-12-30  
PRIOR APPLICATION NUMBER: US 60/175,481  
PRIOR FILING DATE: 2000-01-11  
PRIOR APPLICATION NUMBER: PCT/US00/04341  
PRIOR FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/US00/05841  
PRIOR FILING DATE: 2000-03-02  
PRIOR APPLICATION NUMBER: US 60/191,007  
PRIOR FILING DATE: 2000-03-21  
PRIOR APPLICATION NUMBER: PCT/US00/07532  
PRIOR FILING DATE: 2000-03-21  
PRIOR APPLICATION NUMBER: PCT/US00/15264  
PRIOR FILING DATE: 2000-06-02  
PRIOR APPLICATION NUMBER: US 60/213,087  
PRIOR FILING DATE: 2000-06-22  
PRIOR APPLICATION NUMBER: US 09/644,848  
PRIOR FILING DATE: 2000-08-22  
PRIOR APPLICATION NUMBER: PCT/US00/23328  
PRIOR FILING DATE: 2000-08-24  
PRIOR APPLICATION NUMBER: US 60/242,837  
PRIOR FILING DATE: 2000-10-24  
PRIOR APPLICATION NUMBER: PCT/US00/30873  
PRIOR FILING DATE: 2000-11-10  
PRIOR APPLICATION NUMBER: US 60/253,646  
PRIOR FILING DATE: 2000-11-28  
PRIOR APPLICATION NUMBER: PCT/US00/32678

PRIOR FILING DATE: 2000-12-01  
NUMBER OF SEQ ID NOS: 39  
SEQ ID NO 18  
LENGTH: 728  
TYPE: PRT  
ORGANISM: Homo Sapien  
US-09-747-259-18

Query Match 68.1%; Score 32; DB 2; Length 728;  
Best Local Similarity 71.4%; Pred. No. 7.7e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 3 NTGTYLNL 9  
Db 26 NSGLYNI 32

RESULT 44  
US-09-816-744-18  
Sequence 18, Application US/09816744  
Patent No. 6578520  
GENERAL INFORMATION:  
APPLICANT: Chen, Jian  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Fong, Sherman  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul  
APPLICANT: Grimaldi, Christopher  
APPLICANT: Gurney, Austin  
APPLICANT: Li, Hanzhong  
APPLICANT: Hillan, Kenneth  
APPLICANT: Tumas, Daniel  
APPLICANT: Vanlookeren, Menno  
APPLICANT: Vandlen, Richard  
APPLICANT: Watanabe, Colin  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William  
APPLICANT: Yansura, Daniel  
TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF  
FILE REFERENCE: P1381R1C1P2(US)  
CURRENT APPLICATION NUMBER: US/09/816,744  
CURRENT FILING DATE: 2001-03-22  
Prior application data removed - consult PALM or file wrapper  
NUMBER OF SEQ ID NOS: 39  
SEQ ID NO 18  
LENGTH: 728  
TYPE: PRT  
ORGANISM: Homo Sapien  
US-09-816-744-18

Query Match 68.1%; Score 32; DB 2; Length 728;  
Best Local Similarity 71.4%; Pred. No. 7.7e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 3 NTGTYLNL 9  
Db 26 NSGLYNI 32

RESULT 45  
US-10-104-047-3399  
Sequence 3399, Application US/10104047  
Patent No. 6943241  
GENERAL INFORMATION:  
APPLICANT: HELIX RESEARCH INSTITUTE  
TITLE OF INVENTION: NO. 6943241el full length cDNA  
FILE REFERENCE: H1-A0105  
CURRENT APPLICATION NUMBER: US/10/104,047  
CURRENT FILING DATE: 2002-03-25  
PRIOR APPLICATION NUMBER:  
PRIOR FILING DATE:  
NUMBER OF SEQ ID NOS: 4096  
SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 3399  
LENGTH: 728  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-104-047-3399

Query Match 68.1%; Score 32; DB 2; Length 728;  
Best Local Similarity 71.4%; Pred. No. 7.7e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 NTGGLYN 9  
Db 39 NSGLYNI 45

RESULT 46  
US-09-661-322A-30  
Sequence 30, Application US/09661322A  
Patent No. 6593293  
GENERAL INFORMATION:  
APPLICANT: Baum, James A.  
APPLICANT: Chu, Chih-Rel  
APPLICANT: Donovan, William P.  
APPLICANT: Gilmer, Amy J.  
APPLICANT: Rupar, Mark J.  
TITLE OF INVENTION: Lepidopteran-Active Bacillus thuringiensis Delta-Endotoxin Compos  
FILE REFERENCE: MECO201  
CURRENT APPLICATION NUMBER: US/09/661,322A  
CURRENT FILING DATE: 2000-09-13  
NUMBER OF SEQ ID NOS: 63  
SOFTWARE: Patentin version 3.0  
SEQ ID NO 30  
LENGTH: 802  
TYPE: PRT  
ORGANISM: Bacillus thuringiensis  
US-09-661-332A-30

Query Match 68.1%; Score 32; DB 2; Length 802;  
Best Local Similarity 85.7%; Pred. No. 8.5e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 TNTGLYN 8  
Db 213 TTMGLYN 219

RESULT 47  
US-09-733-643B-16  
Sequence 16, Application US/09733643B  
Patent No. 6734344  
GENERAL INFORMATION:  
APPLICANT: Laroche, Andre J.  
APPLICANT: Huang, Timothy Y  
APPLICANT: Lu, Zhen-Xiang  
APPLICANT: Frick, Michele M.  
APPLICANT: Huang, Hung Chang  
APPLICANT: Cheng, Kuo Joan  
TITLE OF INVENTION: Coniochrylium minicans beta-(1,3) exoglucanase gene  
FILE REFERENCE: cdeg1  
CURRENT APPLICATION NUMBER: US/09/733,643B  
CURRENT FILING DATE: 2000-12-08  
PRIOR APPLICATION NUMBER: US 60/170,168  
PRIOR FILING DATE: 1999-12-12  
NUMBER OF SEQ ID NOS: 24  
SOFTWARE: Patentin Ver. 2.1  
SEQ ID NO 16  
LENGTH: 1032  
TYPE: PRT  
ORGANISM: Trichoderma harzianum  
FEATURE:  
OTHER INFORMATION: Trexo

US-09-733-643B-16

Query Match 68.1%; Score 32; DB 2; Length 1032;  
Best Local Similarity 66.7%; Pred. No. 1.1e+03;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 LTNGLYN 9  
Db 738 LTNINYNL 746

RESULT 48  
US-09-001-982-10  
Sequence 10, Application US/09001982  
Patent No. 6204246  
GENERAL INFORMATION:  
APPLICANT: Bosch, Hendrick J.  
APPLICANT: Stiekema, Willem J.  
TITLE OF INVENTION: Hybrid Toxin  
NUMBER OF SEQUENCES: 15  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: No. 6204246artis Corporation  
STREET: 3054 Cornwallis Road  
CITY: Research Triangle Park  
STATE: NC  
COUNTRY: USA  
ZIP: 27709  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/001,982  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/602,737  
FILING DATE: 21-FEB-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Meigs, J. Timothy  
REGISTRATION NUMBER: 38,241  
REFERENCE/DOCKET NUMBER: 130-4080/PCT/CIP  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 919-541-8587  
TELEFAX: 919-541-8689  
INFORMATION FOR SEQ ID NO: 10:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1156 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-001-982-10

Query Match 68.1%; Score 32; DB 2; Length 1156;  
Best Local Similarity 85.7%; Pred. No. 1.3e+03;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 TNTGLYN 8  
Db 213 TTMGLYN 219

RESULT 49  
US-09-002-285-70  
Sequence 70, Application US/09002285  
Patent No. 6369213  
GENERAL INFORMATION:  
APPLICANT: Schnepf, H. Ernest  
APPLICANT: Wicker, Carol  
APPLICANT: Narva, Kenneth E.  
APPLICANT: Walz, Michelle  
APPLICANT: Stockhoff, Brian

APPLICANT: Muller-Cohn, Judy  
TITLE OF INVENTION: Toxins Active Against Peets  
NUMBER OF SEQUENCES: 105  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Saliwanchik, Lloyd & Saliwanchik  
STREET: 2421 N.W. 41st Street, Suite A-1  
CITY: Gainesville  
STATE: Florida  
COUNTRY: USA  
ZIP: 32606  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/002,285  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/886,615  
FILING DATE: 1-JUL-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/674,002  
FILING DATE: 1-JUL-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Sanders, Jay M.  
REGISTRATION NUMBER: 39,355  
REFERENCE/DOCKET NUMBER: MA-701C2  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (352) 375-8100  
TELEFAX: (352) 372-5800  
INFORMATION FOR SEQ ID NO: 70:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1156 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-002-285-70

Query Match 68.1%; Score 32; DB 2; Length 1156;  
Best Local Similarity 85.7%; Pred. No. 1,3e+03;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 TMTGLYN 8  
Db 213 TMTGLYN 219

RESULT 50  
US-09-589-477-70  
Sequence 70, Application US/09589477  
Patent No. 6570005  
GENERAL INFORMATION:  
APPLICANT: Schenck, H. Ernest  
APPLICANT: Wicker, Carol  
APPLICANT: Nayva, Kenneth E.  
APPLICANT: Walz, Michelle  
APPLICANT: Stockhoff, Brian  
TITLE OF INVENTION: Toxins Active Against Peets  
NUMBER OF SEQUENCES: 105  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Saliwanchik, Lloyd & Saliwanchik  
STREET: 2421 N.W. 41st Street, Suite A-1  
CITY: Gainesville  
STATE: Florida  
COUNTRY: USA  
ZIP: 32606  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/589,477  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/886,615  
FILING DATE: 1-JUL-1997  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/674,002  
FILING DATE: 1-JUL-1996  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Sanders, Jay M.  
REGISTRATION NUMBER: 39,355  
REFERENCE/DOCKET NUMBER: MA-701C1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (352) 375-8100  
TELEFAX: (352) 372-5800  
INFORMATION FOR SEQ ID NO: 70:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1156 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-589-477-70

Query Match 68.1%; Score 32; DB 2; Length 1156;  
Best Local Similarity 85.7%; Pred. No. 1,3e+03;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 TMTGLYN 8  
Db 213 TMTGLYN 219

Search completed: May 5, 2006, 06:23:41  
Job time : 26.9 secs

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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:39:55 ; Search time 56.3 Seconds  
(without alignments)  
66.793 Million cell updates/sec

Title: US-08-170-344-29  
Perfect score: 47  
Sequence: 1 LTNTGLYNL 9

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

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Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database : Published Applications\_AA\_Main:\*

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- 2: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep:\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep:\*
- 4: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep:\*
- 5: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep:\*
- 6: /cgn2\_6/ptodata/1/pubpaa/US11\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	47	100.0	10	US-10-751-845-114	Sequence 134, App
3	47	100.0	10	US-10-751-845-112	Sequence 142, App
4	47	100.0	27	US-10-751-845-153	Sequence 153, App
5	47	100.0	119	US-10-751-845-159	Sequence 159, App
6	47	100.0	158	US-10-800-023-27	Sequence 27, App
7	47	100.0	158	US-11-021-949-28	Sequence 28, App
8	47	100.0	172	US-10-472-724-6	Sequence 6, App
9	47	100.0	236	US-10-751-845-157	Sequence 157, App
10	47	100.0	237	US-10-751-845-158	Sequence 158, App
11	47	100.0	261	US-10-751-845-160	Sequence 160, App
12	47	100.0	278	US-10-000-903-21	Sequence 21, App
13	47	100.0	278	US-10-899-771-21	Sequence 23, App
14	47	100.0	383	US-10-000-903-23	Sequence 23, App
15	47	100.0	383	US-10-899-771-23	Sequence 23, App
16	38	80.9	12	US-10-356-257-95	Sequence 95, App
17	37	78.7	158	US-11-021-949-29	Sequence 29, App
18	37	78.7	158	US-11-021-949-30	Sequence 30, App
19	37	78.7	158	US-11-021-949-361	Sequence 361, App
20	37	78.7	173	US-10-767-701-62514	Sequence 62514, A
21	37	78.7	289	US-10-424-599-165644	Sequence 165644, A
22	37	78.7	523	US-10-437-963-151032	Sequence 151032, A
23	37	78.7	534	US-10-425-115-343736	Sequence 343736, A
24	35	74.5	47	US-10-437-963-146238	Sequence 146238, A
25	35	74.5	189	US-10-767-701-55572	Sequence 55572, A
26	35	74.5	233	US-10-425-115-197706	Sequence 197706, A
27	35	74.5	386	US-10-437-963-176280	Sequence 176280, A

28	74.5	427	4	US-10-424-599-155545	Sequence 155545, A
29	74.5	516	4	US-10-425-115-197705	Sequence 197705, A
30	74.5	529	4	US-10-425-115-67463	Sequence 67463, A
31	74.5	1721	4	US-10-282-122A-62548	Sequence 62548, A
32	74.5	2204	4	US-10-282-122A-64364	Sequence 64364, A
33	72.3	17	3	US-09-813-329-19	Sequence 19, App
34	72.3	17	6	US-11-142-736-19	Sequence 20, App
35	72.3	17	6	US-11-142-736-20	Sequence 20, App
36	72.3	17	6	US-09-813-329-54	Sequence 54, App
37	72.3	27	3	US-09-813-329-64	Sequence 64, App
38	72.3	27	6	US-11-142-736-54	Sequence 54, App
39	72.3	27	6	US-11-142-736-64	Sequence 64, App
40	72.3	68	4	US-10-437-963-175271	Sequence 175271, A
41	72.3	181	4	US-10-767-701-42259	Sequence 42259, A
42	72.3	211	3	US-09-925-297-484	Sequence 484, App
43	72.3	213	4	US-10-094-749-1949	Sequence 1949, App
44	72.3	258	4	US-10-104-047-3590	Sequence 3590, App
45	72.3	325	6	US-11-097-143-29451	Sequence 29451, A
46	72.3	356	4	US-10-085-198-24	Sequence 24, App
47	72.3	390	4	US-10-425-115-304104	Sequence 304104, A
48	72.3	390	4	US-10-062-354-294	Sequence 294, App
49	72.3	406	3	US-09-813-329-4	Sequence 4, App
50	72.3	406	6	US-11-142-736-4	Sequence 4, App
51	72.3	409	3	US-09-813-329-6	Sequence 6, App
52	72.3	409	6	US-11-142-736-6	Sequence 6, App
53	72.3	442	4	US-10-016-768-8	Sequence 8, App
54	72.3	630	5	US-10-450-763-48301	Sequence 48301, A
55	72.3	689	5	US-10-113-085-2	Sequence 2, App
56	72.3	773	5	US-10-656-053B-215	Sequence 215, App
57	72.3	785	5	US-10-656-053B-216	Sequence 216, App
58	72.3	836	5	US-10-281-967-2	Sequence 2, App
59	72.3	941	5	US-10-450-763-45829	Sequence 45829, A
60	72.3	941	5	US-10-450-763-43660	Sequence 43660, A
61	72.3	941	5	US-10-450-763-45829	Sequence 45829, A
62	72.3	941	5	US-10-029-386-28716	Sequence 28716, A
63	70.2	44	4	US-10-437-963-122712	Sequence 122712, A
64	70.2	79	4	US-10-437-963-131954	Sequence 131954, A
65	70.2	89	4	US-10-437-963-131954	Sequence 131954, A
66	70.2	179	4	US-10-425-115-308705	Sequence 308705, A
67	70.2	194	4	US-10-437-963-168761	Sequence 168761, A
68	70.2	205	4	US-10-437-963-154538	Sequence 154538, A
69	70.2	490	4	US-10-282-122A-66127	Sequence 66127, A
70	70.2	495	4	US-10-369-493-6635	Sequence 6635, App
71	70.2	527	4	US-10-425-115-343610	Sequence 343610, A
72	70.2	567	4	US-10-369-022-2	Sequence 2, App
73	70.2	567	5	US-10-480-068-24	Sequence 24, App
74	70.2	567	5	US-10-480-068-25	Sequence 25, App
75	70.2	570	3	US-09-833-790-427	Sequence 427, App
76	70.2	632	3	US-09-833-790-413	Sequence 413, App
77	70.2	632	3	US-09-881-736-2	Sequence 2, App
78	70.2	632	5	US-10-766-169-5122	Sequence 5122, App
79	70.2	632	5	US-10-287-436A-408	Sequence 408, App
80	70.2	632	5	US-10-287-436A-1106	Sequence 1106, App
81	70.2	658	4	US-10-369-493-11914	Sequence 11914, A
82	70.2	663	4	US-10-424-599-271922	Sequence 271922, A
83	70.2	740	5	US-10-739-930-8123	Sequence 8123, App
84	70.2	798	4	US-10-437-963-134455	Sequence 134455, A
85	70.2	893	3	US-10-282-122A-74450	Sequence 74450, A
86	70.2	943	3	US-09-996-634-131	Sequence 131, App
87	70.2	943	3	US-09-997-182-131	Sequence 131, App
88	70.2	943	3	US-09-997-181-131	Sequence 131, App
89	70.2	943	3	US-10-193-002-199	Sequence 199, App
90	70.2	943	4	US-10-084-843-204	Sequence 204, App
91	70.2	943	6	US-11-028-888-204	Sequence 204, App
92	70.2	943	6	US-11-028-888-204	Sequence 204, App
93	70.2	1211	4	US-10-282-122A-66630	Sequence 66630, A
94	70.2	1211	4	US-10-282-122A-64369	Sequence 64369, A
95	66.1	3300	5	US-10-946-647-798	Sequence 798, App
96	66.1	11	4	US-10-425-115-226830	Sequence 226830, A
97	66.1	92	3	US-09-999-214-32	Sequence 32, App
98	68.1	116	4	US-10-424-599-148205	Sequence 148205, A
99	68.1	116	4	US-10-424-599-268054	Sequence 268054, A
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101	32	68.1	162	6	US-11-021-949-31	Sequence 31, Appl	174	31	66.0	71	4	US-10-425-115-193267	Sequence 193267,
102	32	68.1	219	5	US-09-894-018-113	Sequence 113, App	175	31	66.0	113	4	US-10-424-599-269033	Sequence 269033,
103	32	68.1	219	5	US-10-474-960A-113	Sequence 113, App	176	31	66.0	124	4	US-10-394-575-61	Sequence 61, Appl
104	32	68.1	249	4	US-10-369-493-17212	Sequence 17212, A	177	31	66.0	135	4	US-10-425-115-353099	Sequence 353099,
105	32	68.1	251	5	US-10-501-282-4104	Sequence 4104, Ap	178	31	66.0	164	4	US-10-425-115-366539	Sequence 366539,
106	32	68.1	299	5	US-10-616-788-19	Sequence 19, Appl	179	31	66.0	172	5	US-10-220-335-589	Sequence 589, App
107	32	68.1	304	5	US-10-501-282-4106	Sequence 4106, Ap	180	31	66.0	186	4	US-10-379-616-2	Sequence 2, Appl
108	32	68.1	304	5	US-10-101-464A-717	Sequence 717, App	181	31	66.0	214	4	US-10-394-575-29	Sequence 29, Appl
109	32	68.1	304	5	US-10-864-252-717	Sequence 717, App	182	31	66.0	223	3	US-09-754-608-4	Sequence 4, Appl
110	32	68.1	333	5	US-10-474-960A-384	Sequence 384, App	183	31	66.0	283	3	US-09-765-272-124	Sequence 124, App
111	32	68.1	333	5	US-10-474-960A-386	Sequence 386, App	184	31	66.0	283	6	US-11-106-649-124	Sequence 124, App
112	32	68.1	337	4	US-10-094-749-2191	Sequence 2191, Ap	185	31	66.0	295	3	US-09-965-529-31	Sequence 31, Appl
113	32	68.1	385	4	US-10-282-122A-71949	Sequence 71949, A	186	31	66.0	295	3	US-09-969-680A-31	Sequence 31, Appl
114	32	68.1	508	4	US-10-437-963-149456	Sequence 149456,	187	31	66.0	295	6	US-11-048-692-31	Sequence 31, Appl
115	32	68.1	512	4	US-10-159-924-3	Sequence 3, Appl	188	31	66.0	307	4	US-10-724-972A-6098	Sequence 6098, App
116	32	68.1	513	3	US-09-843-477-2	Sequence 2, Appl	189	31	66.0	312	4	US-10-369-493-8306	Sequence 8306, App
117	32	68.1	514	4	US-10-343-593-13	Sequence 13, Appl	190	31	66.0	313	5	US-10-831-070-128	Sequence 128, App
118	32	68.1	514	4	US-10-382-248-38	Sequence 28, Appl	191	31	66.0	353	4	US-10-369-493-3352	Sequence 3352, App
119	32	68.1	554	4	US-10-343-348-16	Sequence 16, Appl	192	31	66.0	360	4	US-10-437-963-169721	Sequence 169721,
120	32	68.1	570	4	US-10-017-161-3064	Sequence 2064, Ap	193	31	66.0	373	4	US-10-424-599-234626	Sequence 234626,
121	32	68.1	570	4	US-10-292-798-1710	Sequence 1710, Ap	194	31	66.0	373	4	US-10-425-114-38616	Sequence 38616, A
122	32	68.1	570	5	US-10-946-647-1409	Sequence 1409, Ap	195	31	66.0	401	4	US-10-369-493-8917	Sequence 8917, Ap
123	32	68.1	585	3	US-09-874-503-18	Sequence 18, Appl	196	31	66.0	419	3	US-09-754-608-2	Sequence 2, Appl
124	32	68.1	728	3	US-09-816-744-18	Sequence 18, Appl	197	31	66.0	419	3	US-09-815-242-13479	Sequence 13479, A
125	32	68.1	728	3	US-09-747-259-18	Sequence 18, Appl	198	31	66.0	419	5	US-10-282-122A-74113	Sequence 74113, A
126	32	68.1	728	3	US-09-908-827-18	Sequence 18, Appl	199	31	66.0	419	5	US-10-472-928-3426	Sequence 3426, Ap
127	32	68.1	728	4	US-10-000-157-18	Sequence 18, Appl	200	31	66.0	447	5	US-10-617-320-5132	Sequence 5132, App
128	32	68.1	728	4	US-10-410-927-18	Sequence 18, Appl	201	31	66.0	447	4	US-10-282-122A-72069	Sequence 72069, A
129	32	68.1	728	4	US-10-410-374-18	Sequence 18, Appl	202	31	66.0	474	4	US-10-369-493-32518	Sequence 22518, A
130	32	68.1	728	4	US-10-410-552-18	Sequence 18, Appl	203	31	66.0	474	5	US-10-972-963-3	Sequence 3, Appl
131	32	68.1	728	4	US-10-458-442-18	Sequence 18, Appl	204	31	66.0	504	4	US-10-282-122A-60670	Sequence 60670, A
132	32	68.1	728	4	US-10-104-047-3399	Sequence 3399, Ap	205	31	66.0	608	4	US-10-437-963-183965	Sequence 183965,
133	32	68.1	728	4	US-10-408-385-18	Sequence 18, Appl	206	31	66.0	654	4	US-10-369-493-50589	Sequence 50589, App
134	32	68.1	738	3	US-09-809-567-2	Sequence 2, Appl	207	31	66.0	654	4	US-10-282-122A-43556	Sequence 43556, A
135	32	68.1	738	3	US-09-863-818A-10	Sequence 10, Appl	208	31	66.0	658	4	US-10-437-963-172615	Sequence 172615,
136	32	68.1	738	4	US-10-216-156-2	Sequence 2, Appl	209	31	66.0	744	4	US-10-369-493-178615	Sequence 178615, Ap
137	32	68.1	738	4	US-10-616-788-2	Sequence 2, Appl	210	31	66.0	770	4	US-10-437-963-181869	Sequence 181869,
138	32	68.1	738	4	US-10-749-144-10	Sequence 10, Appl	211	31	66.0	811	5	US-10-739-930-5643	Sequence 5643, Ap
139	32	68.1	738	5	US-10-924-667-10	Sequence 8, Appl	212	31	66.0	871	4	US-10-437-963-190951	Sequence 190951,
140	32	68.1	739	3	US-09-912-157-8	Sequence 8, Appl	213	31	66.0	948	4	US-10-308-448-15	Sequence 15, Appl
141	32	68.1	739	5	US-10-717-282-8	Sequence 8, Appl	214	31	66.0	948	5	US-10-934-998-295	Sequence 295, App
142	32	68.1	739	5	US-10-842-006-2	Sequence 2, Appl	215	31	66.0	1078	5	US-10-732-923-23286	Sequence 23286, A
143	32	68.1	739	5	US-10-842-006-4	Sequence 4, Appl	216	31	66.0	1119	5	US-10-450-763-54195	Sequence 54195, A
144	32	68.1	739	5	US-10-608-449-2	Sequence 2, Appl	217	31	66.0	1133	5	US-10-450-763-37714	Sequence 37714, A
145	32	68.1	753	3	US-09-912-157-5	Sequence 2, Appl	218	31	66.0	1233	5	US-10-450-763-50809	Sequence 50809, A
146	32	68.1	753	3	US-09-912-157-2	Sequence 2, Appl	219	31	66.0	1274	5	US-10-450-763-50814	Sequence 50814, A
147	32	68.1	753	4	US-10-717-282-2	Sequence 2, Appl	220	31	66.0	1335	4	US-10-724-972A-5767	Sequence 5767, Ap
148	32	68.1	753	4	US-10-717-282-5	Sequence 5, Appl	221	31	66.0	1335	5	US-10-470-048B-278	Sequence 278, App
149	32	68.1	799	4	US-10-437-963-139684	Sequence 139684,	222	31	66.0	1404	3	US-09-811-045B-1	Sequence 1, Appl
150	32	68.1	802	4	US-10-428-961-10	Sequence 30, Appl	223	31	66.0	1412	5	US-10-473-127-351	Sequence 351, App
151	32	68.1	942	4	US-10-437-963-197722	Sequence 197722,	224	31	66.0	1412	5	US-10-473-127-352	Sequence 352, App
152	32	68.1	996	2	US-08-910-386A-5	Sequence 5, Appl	225	31	66.0	1412	5	US-10-473-127-356	Sequence 356, App
153	32	68.1	1032	3	US-09-733-643-16	Sequence 16, Appl	226	31	66.0	1412	5	US-10-473-127-357	Sequence 357, App
154	32	68.1	1032	4	US-10-120-801-44	Sequence 6, Appl	227	31	66.0	1415	4	US-10-408-765A-2282	Sequence 2282, Ap
155	32	68.1	1065	4	US-10-437-963-161656	Sequence 161656,	228	31	66.0	1417	5	US-10-473-127-348	Sequence 348, App
156	32	68.1	1106	4	US-10-282-122A-62472	Sequence 62472, A	229	31	66.0	1417	5	US-10-473-127-359	Sequence 359, App
157	32	68.1	1108	4	US-10-380-727-17	Sequence 17, Appl	230	31	66.0	1420	4	US-10-379-616-4	Sequence 4, Appl
158	32	68.1	1121	4	US-10-768-158-34	Sequence 34, Appl	231	31	66.0	1420	5	US-10-473-127-349	Sequence 349, App
159	32	68.1	1126	3	US-09-892-635A-20	Sequence 20, Appl	232	31	66.0	1420	5	US-10-473-127-353	Sequence 353, App
160	32	68.1	1151	6	US-11-018-615-13	Sequence 13, Appl	233	31	66.0	1424	5	US-10-473-127-358	Sequence 358, App
161	32	68.1	1156	4	US-10-099-285-70	Sequence 70, Appl	234	31	66.0	1424	4	US-10-418-027-1	Sequence 1, Appl
162	32	68.1	1156	6	US-11-018-615-12	Sequence 12, Appl	235	31	66.0	1424	5	US-10-473-127-347	Sequence 347, App
163	32	68.1	1430	4	US-10-282-122A-78451	Sequence 78451, A	236	31	66.0	1424	5	US-10-473-127-350	Sequence 350, App
164	32	68.1	1445	4	US-10-149-310-110	Sequence 110, App	237	31	66.0	1424	5	US-10-473-127-360	Sequence 360, App
165	32	68.1	1446	5	US-10-732-923-8315	Sequence 8315, Ap	238	31	66.0	1424	5	US-10-333-894A-19	Sequence 19, App
166	32	68.1	6761	5	US-10-732-923-15035	Sequence 15035, A	239	31	66.0	1428	4	US-10-437-963-200249	Sequence 200249,
167	31	66.0	46	4	US-10-424-599-193375	Sequence 193375,	240	31	66.0	1522	5	US-10-473-127-355	Sequence 355, App
168	31	66.0	54	4	US-10-425-115-310709	Sequence 310709,	241	31	66.0	1616	6	US-10-934-998-88	Sequence 88, Appl
169	31	66.0	55	4	US-10-424-599-157340	Sequence 157340,	242	31	66.0	1666	6	US-11-097-143-12360	Sequence 12360, A
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171	31	66.0	64	4	US-10-424-599-131023	Sequence 213023,	244	31	66.0	2681	5	US-10-470-048B-274	Sequence 274, App
172	31	66.0	69	4	US-10-424-599-156953	Sequence 156953,	245	31	66.0	3249	4	US-10-282-122A-67572	Sequence 67572, A
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249	30	63.8	42	US-10-424-599-265179	Sequence 265179, Ap	322	30	63.8	330	5	US-10-617-320-4097	Sequence 4097, Ap
250	30	63.8	52	US-10-424-599-241749	Sequence 241749, Ap	323	30	63.8	334	4	US-10-425-115-26786	Sequence 26786, Ap
251	30	63.8	54	US-10-424-599-249287	Sequence 249287, Ap	324	30	63.8	333	3	US-09-984-276-243	Sequence 243, App
252	30	63.8	54	US-10-424-599-206550	Sequence 206550, Ap	325	30	63.8	353	3	US-09-984-271-243	Sequence 243, App
253	30	63.8	56	US-09-864-761-19071	Sequence 49071, A	326	30	63.8	354	3	US-09-820-843A-21	Sequence 21, Appl
254	30	63.8	56	US-10-437-963-128824	Sequence 128824, Ap	327	30	63.8	354	5	US-10-732-923-18833	Sequence 18833, A
255	30	63.8	66	US-10-424-599-152246	Sequence 152246, Ap	328	30	63.8	359	4	US-10-016-668-4	Sequence 4, Appl
256	30	63.8	72	US-10-016-349A-188	Sequence 188, App	329	30	63.8	371	4	US-10-425-115-279192	Sequence 279192
257	30	63.8	81	US-10-425-115-259278	Sequence 259278, A	330	30	63.8	382	3	US-09-975-139-3	Sequence 3, Appl
258	30	63.8	89	US-09-864-761-46008	Sequence 46008, A	331	30	63.8	382	4	US-10-282-122A-49902	Sequence 49902, A
259	30	63.8	89	US-10-424-599-167113	Sequence 167113, Ap	332	30	63.8	387	4	US-10-425-114-44137	Sequence 44137, A
260	30	63.8	89	US-10-424-599-211853	Sequence 211853, Ap	333	30	63.8	396	5	US-09-847-608-13	Sequence 13, Appl
261	30	63.8	97	US-10-425-115-345071	Sequence 345071, Ap	334	30	63.8	396	5	US-10-809-689-100	Sequence 100, App
262	30	63.8	101	US-10-335-977-6611	Sequence 6611, Ap	335	30	63.8	407	4	US-10-425-115-267882	Sequence 267882, Ap
263	30	63.8	104	US-10-424-599-220195	Sequence 220195, A	336	30	63.8	410	4	US-10-442-338-143	Sequence 143, App
264	30	63.8	109	US-10-767-701-51831	Sequence 51831, A	337	30	63.8	412	4	US-10-367-094-191	Sequence 191, App
265	30	63.8	120	US-10-425-115-250004	Sequence 250004, A	338	30	63.8	420	4	US-10-442-538-120	Sequence 120, App
266	30	63.8	132	US-10-282-122A-77998	Sequence 77998, A	339	30	63.8	426	6	US-11-097-143-12255	Sequence 12255, A
267	30	63.8	143	US-10-724-972A-6201	Sequence 6201, Ap	340	30	63.8	427	4	US-10-424-599-190945	Sequence 190945, A
268	30	63.8	164	US-10-425-114-57495	Sequence 57495, A	341	30	63.8	442	4	US-10-425-114-49160	Sequence 49160, A
269	30	63.8	176	US-10-437-963-151239	Sequence 151239, A	342	30	63.8	443	3	US-09-999-214-30	Sequence 30, Appl
270	30	63.8	183	US-10-485-683-191830	Sequence 191830, A	343	30	63.8	443	4	US-10-083-452-5	Sequence 5, Appl
271	30	63.8	195	US-10-424-599-218830	Sequence 218830, A	344	30	63.8	443	4	US-10-369-493-16726	Sequence 16726, A
272	30	63.8	195	US-10-425-115-279490	Sequence 279490, A	345	30	63.8	443	5	US-10-732-923-11098	Sequence 11098, A
273	30	63.8	199	US-10-424-599-204577	Sequence 204577, A	346	30	63.8	445	4	US-10-335-977-4799	Sequence 4799, Ap
274	30	63.8	201	US-10-437-963-164511	Sequence 164511, A	347	30	63.8	455	4	US-10-335-977-4799	Sequence 22122, Ap
275	30	63.8	203	US-10-425-114-58246	Sequence 59246, A	348	30	63.8	458	4	US-10-425-115-222122	Sequence 4800, Ap
276	30	63.8	215	US-10-067-514-5	Sequence 5, Appl	349	30	63.8	459	5	US-10-872-198-126	Sequence 126, App
277	30	63.8	215	US-10-419-723-5	Sequence 5, Appl	350	30	63.8	459	5	US-11-021-951-126	Sequence 126, App
278	30	63.8	215	US-10-255-120-5	Sequence 5, Appl	351	30	63.8	464	4	US-10-424-599-191340	Sequence 191340, A
279	30	63.8	215	US-10-868-397-5	Sequence 8254, Ap	352	30	63.8	464	4	US-10-335-977-4800	Sequence 4800, Ap
280	30	63.8	219	US-10-335-977-8254	Sequence 8254, Ap	353	30	63.8	469	4	US-10-424-599-167946	Sequence 167946, A
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282	30	63.8	230	US-10-335-977-8255	Sequence 8255, Ap	355	30	63.8	504	4	US-10-732-923-19715	Sequence 19715, A
283	30	63.8	233	US-10-156-761-14303	Sequence 14303, A	356	30	63.8	504	4	US-10-398-570-4	Sequence 4, Appl
284	30	63.8	243	US-10-238-075-339	Sequence 339, App	357	30	63.8	504	4	US-10-332-281-336	Sequence 336, App
285	30	63.8	243	US-09-798-029-36	Sequence 36, Appl	358	30	63.8	510	4	US-10-322-281-336	Sequence 336, App
286	30	63.8	243	US-10-733-923-19013	Sequence 19013, A	359	30	63.8	510	4	US-10-322-281-338	Sequence 338, App
287	30	63.8	256	US-10-335-977-6613	Sequence 6613, Ap	360	30	63.8	512	4	US-10-263-220A-9	Sequence 9, Appl
288	30	63.8	257	US-10-335-977-6613	Sequence 6613, Ap	361	30	63.8	512	4	US-10-263-220A-9	Sequence 9, Appl
289	30	63.8	262	US-10-032-189-89	Sequence 89, Appl	362	30	63.8	519	4	US-10-437-963-151684	Sequence 151684, A
290	30	63.8	262	US-10-379-127-27	Sequence 27, Appl	363	30	63.8	529	4	US-10-012-819-184	Sequence 184, App
291	30	63.8	262	US-10-097-143-6177	Sequence 6177, Ap	364	30	63.8	541	4	US-10-386-570-3	Sequence 3, Appl
292	30	63.8	268	US-10-425-114-39807	Sequence 39807, A	365	30	63.8	546	4	US-10-091-007-2	Sequence 2, Appl
293	30	63.8	273	US-09-864-761-36691	Sequence 36691, A	366	30	63.8	575	3	US-09-984-276-159	Sequence 159, App
294	30	63.8	277	US-10-156-761-8858	Sequence 8858, Ap	367	30	63.8	575	3	US-09-984-271-159	Sequence 159, App
295	30	63.8	290	US-10-425-114-57263	Sequence 57263, A	368	30	63.8	581	4	US-10-369-493-3188	Sequence 3188, App
296	30	63.8	290	US-10-425-114-62995	Sequence 62995, A	369	30	63.8	597	3	US-09-793-306-146	Sequence 146, App
297	30	63.8	292	US-10-425-114-49245	Sequence 49245, A	370	30	63.8	598	4	US-10-282-122A-46812	Sequence 46812, A
298	30	63.8	293	US-10-731-525-2	Sequence 2, Appl	371	30	63.8	621	4	US-10-425-115-334956	Sequence 334956
299	30	63.8	293	US-10-762-049-2	Sequence 2, Appl	372	30	63.8	625	6	US-11-097-143-30960	Sequence 30960, A
300	30	63.8	299	US-10-767-701-43742	Sequence 43742, A	373	30	63.8	638	3	US-09-984-276-245	Sequence 245, App
301	30	63.8	304	US-10-282-122A-44180	Sequence 44180, A	374	30	63.8	638	3	US-09-984-271-245	Sequence 245, App
302	30	63.8	311	US-09-924-841-18	Sequence 18, Appl	375	30	63.8	638	3	US-10-437-963-113269	Sequence 113269, A
303	30	63.8	311	US-09-886-055-401	Sequence 401, App	376	30	63.8	642	4	US-10-437-963-119153	Sequence 149153, A
304	30	63.8	311	US-09-804-291-401	Sequence 401, App	377	30	63.8	642	4	US-10-282-122A-64573	Sequence 64573, A
305	30	63.8	311	US-09-912-976-12	Sequence 12, Appl	378	30	63.8	679	4	US-10-437-963-119153	Sequence 186002, A
306	30	63.8	311	US-09-912-976-12	Sequence 390, App	379	30	63.8	687	4	US-10-437-963-119153	Sequence 73, Appl
307	30	63.8	311	US-10-017-161-390	Sequence 398, App	380	30	63.8	687	4	US-10-011-370-2	Sequence 2, Appl
308	30	63.8	311	US-10-017-161-390	Sequence 348, App	381	30	63.8	687	4	US-10-120-604-6	Sequence 6, Appl
309	30	63.8	311	US-10-292-798-348	Sequence 356, App	382	30	63.8	687	4	US-10-369-493-4591	Sequence 6591, Ap
310	30	63.8	311	US-10-292-798-356	Sequence 36, Appl	383	30	63.8	687	4	US-10-436-715-40	Sequence 40, Appl
311	30	63.8	311	US-10-041-615-36	Sequence 37, Appl	384	30	63.8	687	4	US-11-070-456-6	Sequence 6, Appl
312	30	63.8	311	US-10-041-615-37	Sequence 474, Appl	385	30	63.8	687	4	US-09-978-258A-483	Sequence 483, App
313	30	63.8	311	US-10-343-650A-474	Sequence 474, Appl	386	30	63.8	693	3	US-09-978-697-483	Sequence 483, App
314	30	63.8	311	US-10-467-252-41	Sequence 41, Appl	387	30	63.8	693	3	US-09-978-192A-483	Sequence 483, App
315	30	63.8	318	US-10-819-316-401	Sequence 401, App	388	30	63.8	693	3	US-09-999-832A-483	Sequence 483, App
316	30	63.8	318	US-10-424-599-162399	Sequence 162399, A	389	30	63.8	693	3	US-09-978-189-483	Sequence 483, App
317	30	63.8	323	US-10-425-114-56536	Sequence 56536, A	390	30	63.8	693	3	US-09-978-189-483	Sequence 483, App
318	30	63.8	328	US-10-156-761-9776	Sequence 9776, Ap	391	30	63.8	693	3	US-09-978-189-483	Sequence 483, App
319	30	63.8	330	US-09-815-242-11319	Sequence 11319, A	392	30	63.8	693	3	US-09-978-608A-483	Sequence 483, App

393	30	63.8	693	3	US-09-978-585A-483	Sequence 483, App	466	30	63.8	693	4	US-10-127-825A-406	Sequence 406, App
394	30	63.8	693	3	US-09-978-191A-483	Sequence 483, App	467	30	63.8	693	4	US-10-127-829A-406	Sequence 406, App
395	30	63.8	693	3	US-09-978-403A-483	Sequence 483, App	468	30	63.8	693	4	US-10-127-835A-406	Sequence 406, App
396	30	63.8	693	3	US-09-978-564A-483	Sequence 483, App	469	30	63.8	693	4	US-10-127-839A-406	Sequence 406, App
397	30	63.8	693	3	US-09-999-833A-483	Sequence 483, App	470	30	63.8	693	4	US-10-127-901A-406	Sequence 406, App
398	30	63.8	693	3	US-09-981-915A-483	Sequence 483, App	471	30	63.8	693	4	US-10-128-693A-406	Sequence 406, App
399	30	63.8	693	3	US-09-978-824-483	Sequence 483, App	472	30	63.8	693	4	US-10-131-813A-406	Sequence 406, App
400	30	63.8	693	3	US-09-918-585A-483	Sequence 483, App	473	30	63.8	693	4	US-10-131-818A-406	Sequence 406, App
401	30	63.8	693	3	US-09-999-834A-483	Sequence 483, App	474	30	63.8	693	4	US-10-131-823A-406	Sequence 406, App
402	30	63.8	693	3	US-09-978-423A-483	Sequence 483, App	475	30	63.8	693	4	US-10-131-824A-406	Sequence 406, App
403	30	63.8	693	3	US-09-978-193A-483	Sequence 483, App	476	30	63.8	693	4	US-10-131-830A-406	Sequence 406, App
404	30	63.8	693	3	US-09-999-830A-483	Sequence 483, App	477	30	63.8	693	4	US-10-131-837A-406	Sequence 406, App
405	30	63.8	693	3	US-09-978-757A-483	Sequence 483, App	478	30	63.8	693	4	US-10-137-872A-406	Sequence 406, App
406	30	63.8	693	3	US-09-978-187B-483	Sequence 483, App	479	30	63.8	693	4	US-10-147-500A-406	Sequence 406, App
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410	30	63.8	693	3	US-09-978-188A-483	Sequence 483, App	483	30	63.8	693	4	US-10-147-526A-406	Sequence 406, App
411	30	63.8	693	3	US-09-978-681A-483	Sequence 483, App	484	30	63.8	693	4	US-10-147-527A-406	Sequence 406, App
412	30	63.8	693	3	US-09-978-194A-483	Sequence 483, App	485	30	63.8	693	4	US-10-121-041A-406	Sequence 406, App
413	30	63.8	693	3	US-09-999-829A-483	Sequence 483, App	486	30	63.8	693	4	US-10-121-043A-406	Sequence 406, App
414	30	63.8	693	3	US-09-978-299A-483	Sequence 483, App	487	30	63.8	693	4	US-10-121-047A-406	Sequence 406, App
415	30	63.8	693	3	US-09-978-544A-483	Sequence 483, App	488	30	63.8	693	4	US-10-123-215A-406	Sequence 406, App
416	30	63.8	693	3	US-09-978-665A-483	Sequence 483, App	489	30	63.8	693	4	US-10-123-902A-406	Sequence 406, App
417	30	63.8	693	3	US-09-978-802A-483	Sequence 483, App	490	30	63.8	693	4	US-10-123-908A-406	Sequence 406, App
418	30	63.8	693	3	US-09-999-831A-483	Sequence 483, App	491	30	63.8	693	4	US-10-123-909A-406	Sequence 406, App
419	30	63.8	693	3	US-09-978-824A-483	Sequence 483, App	492	30	63.8	693	4	US-10-123-910A-406	Sequence 406, App
420	30	63.8	693	4	US-10-028-072-406	Sequence 406, App	493	30	63.8	693	4	US-10-124-813A-406	Sequence 406, App
421	30	63.8	693	4	US-10-140-808A-406	Sequence 406, App	494	30	63.8	693	4	US-10-124-817A-406	Sequence 406, App
422	30	63.8	693	4	US-10-121-049A-406	Sequence 406, App	495	30	63.8	693	4	US-10-125-922A-406	Sequence 406, App
423	30	63.8	693	4	US-10-123-904A-406	Sequence 406, App	496	30	63.8	693	4	US-10-125-924A-406	Sequence 406, App
424	30	63.8	693	4	US-10-140-470A-406	Sequence 406, App	497	30	63.8	693	4	US-10-140-860A-406	Sequence 406, App
425	30	63.8	693	4	US-10-115-746A-406	Sequence 406, App	498	30	63.8	693	4	US-10-142-417A-406	Sequence 406, App
426	30	63.8	693	4	US-10-116-918A-406	Sequence 406, App	499	30	63.8	693	4	US-10-147-519A-406	Sequence 406, App
427	30	63.8	693	4	US-10-176-921A-406	Sequence 406, App	500	30	63.8	693	4	US-10-157-782A-406	Sequence 406, App
428	30	63.8	693	4	US-10-227-884A-134	Sequence 134, App	501	30	63.8	693	4	US-10-152-395A-406	Sequence 406, App
429	30	63.8	693	4	US-10-137-865A-406	Sequence 406, App	502	30	63.8	693	4	US-10-219-076A-134	Sequence 134, App
430	30	63.8	693	4	US-10-140-474A-406	Sequence 406, App	503	30	63.8	693	4	US-10-230-434A-134	Sequence 134, App
431	30	63.8	693	4	US-10-142-431A-406	Sequence 406, App	504	30	63.8	693	4	US-10-125-926A-406	Sequence 406, App
432	30	63.8	693	4	US-10-143-114A-406	Sequence 406, App	505	30	63.8	693	4	US-10-125-930A-406	Sequence 406, App
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434	30	63.8	693	4	US-10-230-338A-134	Sequence 134, App	507	30	63.8	693	4	US-10-127-831A-406	Sequence 406, App
435	30	63.8	693	4	US-10-142-419A-406	Sequence 406, App	508	30	63.8	693	4	US-10-127-838A-406	Sequence 406, App
436	30	63.8	693	4	US-10-218-631A-134	Sequence 134, App	509	30	63.8	693	4	US-10-127-842A-406	Sequence 406, App
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438	30	63.8	693	4	US-10-123-262A-406	Sequence 406, App	511	30	63.8	693	4	US-10-127-845A-406	Sequence 406, App
439	30	63.8	693	4	US-10-142-423A-406	Sequence 406, App	512	30	63.8	693	4	US-10-127-846A-406	Sequence 406, App
440	30	63.8	693	4	US-10-230-414A-134	Sequence 134, App	513	30	63.8	693	4	US-10-127-848A-406	Sequence 406, App
441	30	63.8	693	4	US-10-121-050A-406	Sequence 406, App	514	30	63.8	693	4	US-10-127-849A-406	Sequence 406, App
442	30	63.8	693	4	US-10-141-755A-406	Sequence 406, App	515	30	63.8	693	4	US-10-127-850A-406	Sequence 406, App
443	30	63.8	693	4	US-10-167-749A-483	Sequence 483, App	516	30	63.8	693	4	US-10-127-851A-406	Sequence 406, App
444	30	63.8	693	4	US-10-143-032A-406	Sequence 406, App	517	30	63.8	693	4	US-10-128-684A-406	Sequence 406, App
445	30	63.8	693	4	US-10-232-224A-134	Sequence 134, App	518	30	63.8	693	4	US-10-128-686A-406	Sequence 406, App
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450	30	63.8	693	4	US-10-140-921A-406	Sequence 406, App	523	30	63.8	693	4	US-10-131-836A-406	Sequence 406, App
451	30	63.8	693	4	US-10-140-928A-406	Sequence 406, App	524	30	63.8	693	4	US-10-146-729A-406	Sequence 406, App
452	30	63.8	693	4	US-10-216-159A-134	Sequence 134, App	525	30	63.8	693	4	US-10-146-791A-406	Sequence 406, App
453	30	63.8	693	4	US-10-013-929A-483	Sequence 483, App	526	30	63.8	693	4	US-10-147-484A-406	Sequence 406, App
454	30	63.8	693	4	US-10-016-177A-483	Sequence 483, App	527	30	63.8	693	4	US-10-147-508A-406	Sequence 406, App
455	30	63.8	693	4	US-10-121-045A-406	Sequence 406, App	528	30	63.8	693	4	US-10-147-512A-406	Sequence 406, App
456	30	63.8	693	4	US-10-123-292A-406	Sequence 406, App	529	30	63.8	693	4	US-10-175-735A-406	Sequence 406, App
457	30	63.8	693	4	US-10-123-903A-406	Sequence 406, App	530	30	63.8	693	4	US-10-121-054A-406	Sequence 406, App
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459	30	63.8	693	4	US-10-124-822A-406	Sequence 406, App	532	30	63.8	693	4	US-10-121-061A-406	Sequence 406, App
460	30	63.8	693	4	US-10-140-925A-406	Sequence 406, App	533	30	63.8	693	4	US-10-123-235A-406	Sequence 406, App
461	30	63.8	693	4	US-10-160-498A-406	Sequence 406, App	534	30	63.8	693	4	US-10-124-818A-406	Sequence 406, App
462	30	63.8	693	4	US-10-218-849A-134	Sequence 134, App	535	30	63.8	693	4	US-10-137-868A-406	Sequence 406, App
463	30	63.8	693	4	US-10-227-873A-134	Sequence 134, App	536	30	63.8	693	4	US-10-147-492A-406	Sequence 406, App
464	30	63.8	693	4	US-10-227-883A-134	Sequence 134, App	537	30	63.8	693	4	US-10-158-782A-406	Sequence 406, App
465	30	63.8	693	4	US-10-124-824A-406	Sequence 406, App	538	30	63.8	693	4	US-10-123-905A-406	Sequence 406, App

539	30	63.8	693	4	US-10-123-907-406	Sequence 406, App	612	30	63.8	693	4	US-10-219-071-134	Sequence 134, App
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543	30	63.8	693	4	US-10-127-822A-406	Sequence 406, App	616	30	63.8	693	4	US-10-219-467-134	Sequence 134, App
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552	30	63.8	693	4	US-10-127-834A-406	Sequence 406, App	625	30	63.8	693	4	US-10-230-024-134	Sequence 134, App
553	30	63.8	693	4	US-10-127-835A-406	Sequence 406, App	626	30	63.8	693	4	US-10-230-113-134	Sequence 134, App
554	30	63.8	693	4	US-10-127-841A-406	Sequence 406, App	627	30	63.8	693	4	US-10-230-183-134	Sequence 134, App
555	30	63.8	693	4	US-10-127-844A-406	Sequence 406, App	628	30	63.8	693	4	US-10-230-234-134	Sequence 134, App
556	30	63.8	693	4	US-10-128-687A-406	Sequence 406, App	629	30	63.8	693	4	US-10-230-306-134	Sequence 134, App
557	30	63.8	693	4	US-10-128-688A-406	Sequence 406, App	630	30	63.8	693	4	US-10-230-426-134	Sequence 134, App
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561	30	63.8	693	4	US-10-131-817A-406	Sequence 406, App	634	30	63.8	693	4	US-10-230-438-134	Sequence 134, App
562	30	63.8	693	4	US-10-219-003-134	Sequence 134, App	635	30	63.8	693	4	US-10-232-222-134	Sequence 134, App
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576	30	63.8	693	4	US-10-137-864A-406	Sequence 406, App	649	30	63.8	693	4	US-10-127-847A-406	Sequence 406, App
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598	30	63.8	693	4	US-10-223-223-134	Sequence 134, App	671	30	63.8	693	4	US-10-144-924-406	Sequence 406, App
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610	30	63.8	693	4	US-10-216-168-134	Sequence 134, App	683	30	63.8	693	4	US-10-147-501-406	Sequence 406, App
611	30	63.8	693	4	US-10-216-168-134	Sequence 134, App	684	30	63.8	693	4	US-10-147-504-406	Sequence 406, App

685	30	63.8	693	4	US-10-147-506-406	Sequence 406, App	758	30	63.8	693	4	US-10-145-822-406	Sequence 406, App
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690	30	63.8	693	4	US-10-152-397-406	Sequence 406, App	763	30	63.8	693	4	US-10-145-877-406	Sequence 406, App
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694	30	63.8	693	4	US-10-137-870-406	Sequence 406, App	767	30	63.8	693	4	US-10-146-793-406	Sequence 406, App
695	30	63.8	693	4	US-10-140-018-406	Sequence 406, App	768	30	63.8	693	4	US-10-147-485-406	Sequence 406, App
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700	30	63.8	693	4	US-10-145-633-406	Sequence 406, App	773	30	63.8	693	4	US-10-147-494-406	Sequence 406, App
701	30	63.8	693	4	US-10-158-783-406	Sequence 406, App	774	30	63.8	693	4	US-10-147-498-406	Sequence 406, App
702	30	63.8	693	4	US-10-140-274-406	Sequence 406, App	775	30	63.8	693	4	US-10-147-514-406	Sequence 406, App
703	30	63.8	693	4	US-10-143-030A-483	Sequence 483, App	776	30	63.8	693	4	US-10-147-524-406	Sequence 406, App
704	30	63.8	693	4	US-10-002-967A-483	Sequence 483, App	777	30	63.8	693	4	US-10-152-379-406	Sequence 406, App
705	30	63.8	693	4	US-10-017-083A-483	Sequence 406, App	778	30	63.8	693	4	US-10-152-394-406	Sequence 406, App
706	30	63.8	693	4	US-10-140-019-406	Sequence 406, App	779	30	63.8	693	4	US-10-152-384-406	Sequence 406, App
707	30	63.8	693	4	US-10-140-022-406	Sequence 406, App	780	30	63.8	693	4	US-10-152-405-406	Sequence 406, App
708	30	63.8	693	4	US-10-140-861-406	Sequence 406, App	781	30	63.8	693	4	US-10-156-847-406	Sequence 406, App
709	30	63.8	693	4	US-10-140-862-406	Sequence 406, App	782	30	63.8	693	4	US-10-157-778-406	Sequence 406, App
710	30	63.8	693	4	US-10-141-697-406	Sequence 406, App	783	30	63.8	693	4	US-10-157-799-406	Sequence 406, App
711	30	63.8	693	4	US-10-141-700-406	Sequence 406, App	784	30	63.8	693	4	US-10-160-504-406	Sequence 406, App
712	30	63.8	693	4	US-10-141-705-406	Sequence 406, App	785	30	63.8	693	4	US-10-073-054-2	Sequence 2, App11
713	30	63.8	693	4	US-10-141-753-406	Sequence 406, App	786	30	63.8	693	4	US-10-073-054-4	Sequence 4, App11
714	30	63.8	693	4	US-10-141-758-406	Sequence 406, App	787	30	63.8	693	4	US-10-073-054-6	Sequence 6, App11
715	30	63.8	693	4	US-10-142-418-406	Sequence 406, App	788	30	63.8	693	4	US-10-147-191A-483	Sequence 483, App
716	30	63.8	693	4	US-10-142-420-406	Sequence 406, App	789	30	63.8	693	4	US-10-145-634-406	Sequence 406, App
717	30	63.8	693	4	US-10-142-422-406	Sequence 406, App	790	30	63.8	693	4	US-10-147-520-406	Sequence 406, App
718	30	63.8	693	4	US-10-142-427-406	Sequence 406, App	791	30	63.8	693	4	US-10-157-781-406	Sequence 406, App
719	30	63.8	693	4	US-10-142-760-406	Sequence 406, App	792	30	63.8	693	4	US-10-176-989-406	Sequence 2, App11
720	30	63.8	693	4	US-10-145-821-406	Sequence 406, App	793	30	63.8	693	4	US-10-147-491-406	Sequence 406, App
721	30	63.8	693	4	US-10-152-531-406	Sequence 406, App	794	30	63.8	693	4	US-10-152-378-406	Sequence 406, App
722	30	63.8	693	4	US-10-216-163-134	Sequence 134, App	795	30	63.8	693	4	US-10-152-382-406	Sequence 406, App
723	30	63.8	693	4	US-10-177-840A-406	Sequence 406, App	796	30	63.8	693	4	US-10-152-383-406	Sequence 406, App
724	30	63.8	693	4	US-10-142-424-406	Sequence 406, App	797	30	63.8	693	4	US-10-152-384-406	Sequence 406, App
725	30	63.8	693	4	US-10-142-761-406	Sequence 406, App	798	30	63.8	693	4	US-10-152-387-406	Sequence 406, App
726	30	63.8	693	4	US-10-142-763-406	Sequence 406, App	799	30	63.8	693	4	US-10-152-389-406	Sequence 406, App
727	30	63.8	693	4	US-10-142-765-406	Sequence 406, App	800	30	63.8	693	4	US-10-152-390-406	Sequence 406, App
728	30	63.8	693	4	US-10-142-887-406	Sequence 406, App	801	30	63.8	693	4	US-10-152-392-406	Sequence 406, App
729	30	63.8	693	4	US-10-142-888-406	Sequence 406, App	802	30	63.8	693	4	US-10-153-756-406	Sequence 406, App
730	30	63.8	693	4	US-10-143-034-406	Sequence 406, App	803	30	63.8	693	4	US-10-157-797-406	Sequence 406, App
731	30	63.8	693	4	US-10-143-116-406	Sequence 406, App	804	30	63.8	693	4	US-10-157-784-406	Sequence 406, App
732	30	63.8	693	4	US-10-144-957-406	Sequence 406, App	805	30	63.8	693	4	US-10-158-491-406	Sequence 406, App
733	30	63.8	693	4	US-10-144-992-406	Sequence 406, App	806	30	63.8	693	4	US-10-143-028A-483	Sequence 483, App
734	30	63.8	693	4	US-10-145-015-406	Sequence 406, App	807	30	63.8	693	4	US-10-143-029A-483	Sequence 483, App
735	30	63.8	693	4	US-10-145-090-406	Sequence 406, App	808	30	63.8	693	4	US-10-142-762-406	Sequence 406, App
736	30	63.8	693	4	US-10-145-091-406	Sequence 406, App	809	30	63.8	693	4	US-10-142-764-406	Sequence 406, App
737	30	63.8	693	4	US-10-145-128A-483	Sequence 483, App	810	30	63.8	693	4	US-10-142-766-406	Sequence 406, App
738	30	63.8	693	4	US-10-145-629-406	Sequence 406, App	811	30	63.8	693	4	US-10-145-089A-483	Sequence 483, App
739	30	63.8	693	4	US-10-145-630-406	Sequence 406, App	812	30	63.8	693	4	US-10-145-625-406	Sequence 406, App
740	30	63.8	693	4	US-10-145-747-406	Sequence 406, App	813	30	63.8	693	4	US-10-145-627-406	Sequence 406, App
741	30	63.8	693	4	US-10-145-752-406	Sequence 406, App	814	30	63.8	693	4	US-10-145-960-406	Sequence 406, App
742	30	63.8	693	4	US-10-145-754-406	Sequence 406, App	815	30	63.8	693	4	US-10-145-962-406	Sequence 406, App
743	30	63.8	693	4	US-10-145-755-406	Sequence 406, App	816	30	63.8	693	4	US-10-146-789-406	Sequence 406, App
744	30	63.8	693	4	US-10-145-818-406	Sequence 406, App	817	30	63.8	693	4	US-10-147-483-406	Sequence 406, App
745	30	63.8	693	4	US-10-145-820-406	Sequence 406, App	818	30	63.8	693	4	US-10-147-496-406	Sequence 406, App
746	30	63.8	693	4	US-10-145-872-406	Sequence 406, App	819	30	63.8	693	4	US-10-147-505-406	Sequence 406, App
747	30	63.8	693	4	US-10-145-873-406	Sequence 406, App	820	30	63.8	693	4	US-10-147-516-406	Sequence 406, App
748	30	63.8	693	4	US-10-147-481-406	Sequence 406, App	821	30	63.8	693	4	US-10-152-398-406	Sequence 406, App
749	30	63.8	693	4	US-10-147-482-406	Sequence 406, App	822	30	63.8	693	4	US-10-139-980-406	Sequence 406, App
750	30	63.8	693	4	US-10-147-503-406	Sequence 406, App	823	30	63.8	693	4	US-10-165-067A-483	Sequence 483, App
751	30	63.8	693	4	US-10-147-522-406	Sequence 406, App	824	30	63.8	693	4	US-10-145-017A-483	Sequence 483, App
752	30	63.8	693	4	US-10-152-401-406	Sequence 406, App	825	30	63.8	693	4	US-10-145-750-406	Sequence 406, App
753	30	63.8	693	4	US-10-157-783-406	Sequence 406, App	826	30	63.8	693	4	US-10-152-373-406	Sequence 406, App
754	30	63.8	693	4	US-10-158-792-406	Sequence 406, App	827	30	63.8	693	4	US-10-164-728A-483	Sequence 483, App
755	30	63.8	693	4	US-10-158-462-406	Sequence 406, App	828	30	63.8	693	4	US-10-223-081-92	Sequence 92, App1
756	30	63.8	693	4	US-10-143-035-406	Sequence 406, App	829	30	63.8	693	4	US-10-218-765-134	Sequence 134, App
757	30	63.8	693	4	US-10-145-751-406	Sequence 406, App	830	30	63.8	693	4	US-10-219-063-134	Sequence 134, App

831	30	63.8	693	4	US-10-219-066-134	Sequence 134, App	904	30	63.8	693	4	US-10-121-048-406	Sequence 406, App
832	30	63.8	693	4	US-10-219-067-134	Sequence 134, App	905	30	63.8	693	4	US-10-121-052-406	Sequence 406, App
833	30	63.8	693	4	US-10-219-068-134	Sequence 134, App	906	30	63.8	693	4	US-10-121-053-406	Sequence 406, App
834	30	63.8	693	4	US-10-219-069-134	Sequence 134, App	907	30	63.8	693	4	US-10-121-054-406	Sequence 406, App
835	30	63.8	693	4	US-10-219-073-134	Sequence 134, App	908	30	63.8	693	4	US-10-121-063-406	Sequence 406, App
836	30	63.8	693	4	US-10-219-475-134	Sequence 134, App	909	30	63.8	693	4	US-10-123-212-406	Sequence 406, App
837	30	63.8	693	4	US-10-219-480-134	Sequence 134, App	910	30	63.8	693	4	US-10-123-213-406	Sequence 406, App
838	30	63.8	693	4	US-10-219-483-134	Sequence 134, App	911	30	63.8	693	4	US-10-123-291-406	Sequence 406, App
839	30	63.8	693	4	US-10-219-525-134	Sequence 134, App	912	30	63.8	693	4	US-10-123-721-406	Sequence 406, App
840	30	63.8	693	4	US-10-219-526-134	Sequence 134, App	913	30	63.8	693	4	US-10-123-911-406	Sequence 406, App
841	30	63.8	693	4	US-10-219-530-134	Sequence 134, App	914	30	63.8	693	4	US-10-123-921-406	Sequence 406, App
842	30	63.8	693	4	US-10-219-531-134	Sequence 134, App	915	30	63.8	693	4	US-10-125-931-406	Sequence 406, App
843	30	63.8	693	4	US-10-219-532-134	Sequence 134, App	916	30	63.8	693	4	US-10-125-932-406	Sequence 406, App
844	30	63.8	693	4	US-10-219-533-134	Sequence 134, App	917	30	63.8	693	4	US-10-017-084A-483	Sequence 483, App
845	30	63.8	693	4	US-10-230-437-134	Sequence 134, App	918	30	63.8	693	4	US-10-127-852A-406	Sequence 406, App
846	30	63.8	693	4	US-10-232-328-134	Sequence 134, App	919	30	63.8	693	4	US-10-127-852A-406	Sequence 406, App
847	30	63.8	693	4	US-10-013-926A-483	Sequence 483, App	920	30	63.8	693	4	US-10-127-900A-406	Sequence 406, App
848	30	63.8	693	4	US-10-165-247A-483	Sequence 483, App	921	30	63.8	693	4	US-10-128-685A-406	Sequence 406, App
849	30	63.8	693	4	US-10-145-124A-483	Sequence 483, App	922	30	63.8	693	4	US-10-131-820A-406	Sequence 406, App
850	30	63.8	693	4	US-10-160-502A-483	Sequence 483, App	923	30	63.8	693	4	US-10-112-886-406	Sequence 406, App
851	30	63.8	693	4	US-10-121-044-406	Sequence 406, App	924	30	63.8	693	4	US-10-145-016A-483	Sequence 483, App
852	30	63.8	693	4	US-10-121-054-406	Sequence 406, App	925	30	63.8	693	4	US-10-145-088A-483	Sequence 483, App
853	30	63.8	693	4	US-10-121-057-406	Sequence 406, App	926	30	63.8	693	4	US-10-145-092A-483	Sequence 483, App
854	30	63.8	693	4	US-10-121-058-406	Sequence 406, App	927	30	63.8	693	4	US-10-145-129A-483	Sequence 406, App
855	30	63.8	693	4	US-10-121-059-406	Sequence 406, App	928	30	63.8	693	4	US-10-146-728-406	Sequence 406, App
856	30	63.8	693	4	US-10-121-060-406	Sequence 406, App	929	30	63.8	693	4	US-10-146-786-406	Sequence 406, App
857	30	63.8	693	4	US-10-123-109-406	Sequence 406, App	930	30	63.8	693	4	US-10-147-499-406	Sequence 406, App
858	30	63.8	693	4	US-10-123-154-406	Sequence 406, App	931	30	63.8	693	4	US-10-157-798-406	Sequence 40

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977 30 63.8 693 4 US-10-192-011-406 Sequence 406, App
978 30 63.8 693 4 US-10-139-963-406 Sequence 406, App
979 30 63.8 693 4 US-10-140-020-406 Sequence 406, App
980 30 63.8 693 4 US-10-140-023-406 Sequence 406, App
981 30 63.8 693 4 US-10-140-809-406 Sequence 406, App
982 30 63.8 693 4 US-10-140-865-406 Sequence 406, App
983 30 63.8 693 4 US-10-141-701-406 Sequence 406, App
984 30 63.8 693 4 US-10-141-754-406 Sequence 406, App
985 30 63.8 693 4 US-10-141-760-406 Sequence 406, App
986 30 63.8 693 4 US-10-142-425-406 Sequence 406, App
987 30 63.8 693 4 US-10-142-430-406 Sequence 406, App
988 30 63.8 693 4 US-10-143-113-406 Sequence 406, App
989 30 63.8 693 4 US-10-146-730-406 Sequence 406, App
990 30 63.8 693 4 US-10-146-792-406 Sequence 406, App
991 30 63.8 693 4 US-10-158-791-406 Sequence 406, App
992 30 63.8 693 4 US-10-143-026B-483 Sequence 483, App
993 30 63.8 693 4 US-10-156-843-406 Sequence 406, App
994 30 63.8 693 4 US-10-157-786-406 Sequence 406, App
995 30 63.8 693 4 US-10-013-918A-483 Sequence 483, App
996 30 63.8 693 4 US-10-162-521A-483 Sequence 483, App
997 30 63.8 693 4 US-10-152-405-406 Sequence 406, App
998 30 63.8 693 4 US-10-013-928A-483 Sequence 483, App
999 30 63.8 693 4 US-10-162-522A-483 Sequence 483, App
1000 30 63.8 693 4 US-10-013-923A-483 Sequence 483, App
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## ALIGNMENTS

```
RESULT 1
US-10-751-845-135
; Sequence 135, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 135
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-135

Query Match          100.0%; Score 47; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 134
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-134

Query Match          100.0%; Score 47; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.02;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 3
US-10-751-845-142
; Sequence 142, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 142
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-142

Query Match          100.0%; Score 47; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.02;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
RESULT 2
US-10-751-845-134
; Sequence 134, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
US-10-751-845-134

Query Match          100.0%; Score 47; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 4
US-10-751-845-153
; Sequence 153, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
US-10-751-845-153

Query Match          100.0%; Score 47; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.02;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```

; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 153
; LENGTH: 27
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-153
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Query Match          100.0%; Score 47; DB 5; Length 27;
Best Local Similarity 100.0%; Pred. No. 0.06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 LNTGTGLYNL 9
        |||||
Db       10 LNTGTGLYNL 18
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```

RESULT 5
US-10-751-845-159
; Sequence 159, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 159
; LENGTH: 119
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-159
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```

Query Match          100.0%; Score 47; DB 5; Length 119;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1 LNTGTGLYNL 9
        |||||
Db       52 LNTGTGLYNL 60
```

```

RESULT 6
US-10-800-023-27
; Sequence 27, Application US/10800023
; Publication No. US2004025868A1
; GENERAL INFORMATION:
; APPLICANT: Steinman, Ralph
; APPLICANT: Nussenzweig, Michel
; APPLICANT: Hawiger, Daniel
; APPLICANT: Bonifaz, Laura
; TITLE OF INVENTION: Enhanced Antigen Delivery and Modulation
; FILE REFERENCE: 600-1-081CONCIP1
; CURRENT APPLICATION NUMBER: US/10/800,023
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; CURRENT FILING DATE: 2004-03-14
; PRIOR APPLICATION NUMBER: 09/925,284
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 09/586,704
; PRIOR FILING DATE: 2000-06-05
; PRIOR APPLICATION NUMBER: PCT/US96/01383
; PRIOR FILING DATE: 1996-01-31
; PRIOR APPLICATION NUMBER: 08/381,528
; PRIOR FILING DATE: 1995-01-31
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus E6 protein
US-10-800-023-27
```

```

Query Match          100.0%; Score 47; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.42;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1 LNTGTGLYNL 9
        |||||
Db       93 LNTGTGLYNL 101
```

```

RESULT 7
US-11-021-949-28
; Sequence 28, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SAMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 28
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-28
```

```

Query Match          100.0%; Score 47; DB 6; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.42;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 LNTGTGLYNL 9
        |||||
Db       93 LNTGTGLYNL 101
```

```

RESULT 8
US-10-472-724-6
; Sequence 6, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Cid-Arregui, Angel
; APPLICANT: Zur Hausen, Harald
; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
```

; PRIOR APPLICATION NUMBER: EP 01107271.7  
; PRIOR FILING DATE: 2001-03-23  
; NUMBER OF SEQ ID NOS: 27  
; SOFTWARE: Patent version 3.2  
; SEQ ID NO 6  
; LENGTH: 172  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic Construct  
US-10-472-724-6

Query Match 100.0%; Score 47; DB 4; Length 172;  
Best Local Similarity 100.0%; Pred. No. 0.46; Mismatches 0; Indels 0; Gaps 0;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 LNTGTGLYNL 9  
|||  
Db 99 LNTGTGLYNL 107

RESULT 9  
US-10-751-845-157  
; Sequence 157, Application US/10751845  
; Publication No. US20050100928A1  
; GENERAL INFORMATION:  
; APPLICANT: Hedley, Mary Lynne  
; APPLICANT: Urban, Robert G.  
; APPLICANT: Chicz, Roman M.  
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES  
; FILE REFERENCE: 08191-013001  
; CURRENT APPLICATION NUMBER: US/10/751,845  
; CURRENT FILING DATE: 2004-01-05  
; PRIOR APPLICATION NUMBER: US/09/664,225  
; PRIOR FILING DATE: 2000-08-18  
; PRIOR APPLICATION NUMBER: US 60/169,846  
; PRIOR FILING DATE: 1999-12-09  
; PRIOR APPLICATION NUMBER: US 60/154,665  
; PRIOR FILING DATE: 1999-09-16  
; NUMBER OF SEQ ID NOS: 163  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 157  
; LENGTH: 236  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Artificial fusion sequence  
US-10-751-845-157

Query Match 100.0%; Score 47; DB 5; Length 236;  
Best Local Similarity 100.0%; Pred. No. 0.65; Mismatches 0; Indels 0; Gaps 0;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 LNTGTGLYNL 9  
|||  
Db 169 LNTGTGLYNL 177

RESULT 10  
US-10-751-845-158  
; Sequence 158, Application US/10751845  
; Publication No. US20050100928A1  
; GENERAL INFORMATION:  
; APPLICANT: Hedley, Mary Lynne  
; APPLICANT: Urban, Robert G.  
; APPLICANT: Chicz, Roman M.  
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES  
; FILE REFERENCE: 08191-013001  
; CURRENT APPLICATION NUMBER: US/10/751,845  
; CURRENT FILING DATE: 2004-01-05  
; PRIOR APPLICATION NUMBER: US/09/664,225  
; PRIOR FILING DATE: 2000-08-18  
; PRIOR APPLICATION NUMBER: US 60/169,846

; PRIOR FILING DATE: 1999-12-09  
; PRIOR APPLICATION NUMBER: US 60/154,665  
; PRIOR FILING DATE: 1999-09-16  
; NUMBER OF SEQ ID NOS: 163  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 158  
; LENGTH: 237  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Artificial fusion sequence  
US-10-751-845-158

Query Match 100.0%; Score 47; DB 5; Length 237;  
Best Local Similarity 100.0%; Pred. No. 0.65; Mismatches 0; Indels 0; Gaps 0;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 LNTGTGLYNL 9  
|||  
Db 170 LNTGTGLYNL 178

RESULT 11  
US-10-751-845-160  
; Sequence 160, Application US/10751845  
; Publication No. US20050100928A1  
; GENERAL INFORMATION:  
; APPLICANT: Hedley, Mary Lynne  
; APPLICANT: Urban, Robert G.  
; APPLICANT: Chicz, Roman M.  
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES  
; FILE REFERENCE: 08191-013001  
; CURRENT APPLICATION NUMBER: US/10/751,845  
; CURRENT FILING DATE: 2004-01-05  
; PRIOR APPLICATION NUMBER: US/09/664,225  
; PRIOR FILING DATE: 2000-08-18  
; PRIOR APPLICATION NUMBER: US 60/169,846  
; PRIOR FILING DATE: 1999-12-09  
; PRIOR APPLICATION NUMBER: US 60/154,665  
; PRIOR FILING DATE: 1999-09-16  
; NUMBER OF SEQ ID NOS: 163  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 160  
; LENGTH: 261  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Artificial fusion sequence  
US-10-751-845-160

Query Match 100.0%; Score 47; DB 5; Length 261;  
Best Local Similarity 100.0%; Pred. No. 0.72; Mismatches 0; Indels 0; Gaps 0;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 LNTGTGLYNL 9  
|||  
Db 194 LNTGTGLYNL 202

RESULT 12  
US-10-000-903-21  
; Sequence 21, Application US/10000903  
; Publication No. US20020182221A1  
; GENERAL INFORMATION:  
; APPLICANT: Bruck, Claudine  
; APPLICANT: Cabazon Silva, Teresa  
; APPLICANT: Delisse, Anne-Marie Eva Bernande  
; APPLICANT: Gerard, Catherine Marie Chistaine  
; APPLICANT: Lombardo-Bencheikh, Angela  
; TITLE OF INVENTION: Vaccine  
; FILE REFERENCE: B45107  
; CURRENT APPLICATION NUMBER: US/10/000,903  
; CURRENT FILING DATE: 2001-10-01



```

; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 21
; LENGTH: 278
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-21
```

```
Query Match          100.0%; Score 47; DB 4; Length 278;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LTNLTGLYNL 9
Db 204 LTNLTGLYNL 212
```

```

RESULT 13
US-10-899-771-21
; Sequence 21, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 21
; LENGTH: 278
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
; OTHER INFORMATION: influenzae B and E6 from Human papilloma virus type
; OTHER INFORMATION: 18)
US-10-899-771-21
```

```
Query Match          100.0%; Score 47; DB 5; Length 278;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LTNLTGLYNL 9
Db 204 LTNLTGLYNL 212
```

```

RESULT 14
US-10-000-903-23
; Sequence 23, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisee, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
```

```

; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-23
```

```
Query Match          100.0%; Score 47; DB 4; Length 383;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LTNLTGLYNL 9
Db 204 LTNLTGLYNL 212
```

```

RESULT 15
US-10-899-771-23
; Sequence 23, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
; OTHER INFORMATION: influenzae B and E67 fusion from Human papilloma
; OTHER INFORMATION: virus type 18)
US-10-899-771-23
```

```
Query Match          100.0%; Score 47; DB 5; Length 383;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LTNLTGLYNL 9
Db 204 LTNLTGLYNL 212
```

```

RESULT 16
US-10-356-257-95
; Sequence 95, Application US/10356257
; Publication No. US2004008767A1
; GENERAL INFORMATION:
; APPLICANT: LAZARUS, ROBERT A.
; APPLICANT: MAUN, HENRY R.
; TITLE OF INVENTION: FvIla Antagonists
; FILE REFERENCE: P1950R1
; CURRENT APPLICATION NUMBER: US/10/356,257
; CURRENT FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: US 60/355,420
```

;; PRIOR FILING DATE: 2002-02-06  
;; NUMBER OF SEQ ID NOS: 355  
;; SEQ ID NO 95  
;; LENGTH: 12  
;; TYPE: PRT  
;; ORGANISM: Artificial sequence  
;; FEATURE:  
;; OTHER INFORMATION: sequence is synthesized  
US-10-356-257-95

Query Match 80.9%; Score 38; DB 4; Length 12;  
Best Local Similarity 88.9%; Pred. No. 1.4;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LTNLTGLYNL 9  
Db 2 LTNLTGLSNL 10

RESULT 17  
US-11-021-949-29  
;; Sequence 29, Application US/11021949  
;; Publication No. US20050142541A1  
;; GENERAL INFORMATION:  
;; APPLICANT: LU, PETER  
;; APPLICANT: GARMAN, JONATHAN DAVID  
;; APPLICANT: BELMARES, MICHAEL P.  
;; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA  
;; APPLICANT: SCHWEIZER, JOHANNES  
;; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV  
;; TITLE OF INVENTION: AND METHODS OF THEIR USE  
;; FILE REFERENCE: VITA-012  
;; CURRENT APPLICATION NUMBER: US/11/021,949  
;; CURRENT FILING DATE: 2004-12-23  
;; PRIOR APPLICATION NUMBER: 60/532,373  
;; PRIOR FILING DATE: 2003-12-23  
;; NUMBER OF SEQ ID NOS: 361  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 29  
;; LENGTH: 158  
;; TYPE: PRT  
;; ORGANISM: human papilloma virus (HPV)  
US-11-021-949-29

Query Match 78.7%; Score 37; DB 6; Length 158;  
Best Local Similarity 77.8%; Pred. No. 37;  
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LTNLTGLYNL 9  
Db 93 ITNTELYNL 101

RESULT 18  
US-11-021-949-30  
;; Sequence 30, Application US/11021949  
;; Publication No. US20050142541A1  
;; GENERAL INFORMATION:  
;; APPLICANT: LU, PETER  
;; APPLICANT: GARMAN, JONATHAN DAVID  
;; APPLICANT: BELMARES, MICHAEL P.  
;; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA  
;; APPLICANT: SCHWEIZER, JOHANNES  
;; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV  
;; TITLE OF INVENTION: AND METHODS OF THEIR USE  
;; FILE REFERENCE: VITA-012  
;; CURRENT APPLICATION NUMBER: US/11/021,949  
;; CURRENT FILING DATE: 2004-12-23  
;; PRIOR APPLICATION NUMBER: 60/532,373  
;; PRIOR FILING DATE: 2003-12-23  
;; NUMBER OF SEQ ID NOS: 361  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 30

;; LENGTH: 158  
;; TYPE: PRT  
;; ORGANISM: human papilloma virus (HPV)  
US-11-021-949-30

Query Match 78.7%; Score 37; DB 6; Length 158;  
Best Local Similarity 77.8%; Pred. No. 37;  
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LTNLTGLYNL 9  
Db 93 ITNTELYNL 101

RESULT 19  
US-11-021-949-361  
;; Sequence 361, Application US/11021949  
;; Publication No. US20050142541A1  
;; GENERAL INFORMATION:  
;; APPLICANT: LU, PETER  
;; APPLICANT: GARMAN, JONATHAN DAVID  
;; APPLICANT: BELMARES, MICHAEL P.  
;; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA  
;; APPLICANT: SCHWEIZER, JOHANNES  
;; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV  
;; TITLE OF INVENTION: AND METHODS OF THEIR USE  
;; FILE REFERENCE: VITA-012  
;; CURRENT APPLICATION NUMBER: US/11/021,949  
;; CURRENT FILING DATE: 2004-12-23  
;; PRIOR APPLICATION NUMBER: 60/532,373  
;; PRIOR FILING DATE: 2003-12-23  
;; NUMBER OF SEQ ID NOS: 361  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 361  
;; LENGTH: 158  
;; TYPE: PRT  
;; ORGANISM: human papilloma virus (HPV)  
US-11-021-949-361

Query Match 78.7%; Score 37; DB 6; Length 158;  
Best Local Similarity 77.8%; Pred. No. 37;  
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LTNLTGLYNL 9  
Db 93 ITNTELYNL 101

RESULT 20  
US-10-767-701-62514  
;; Sequence 62514, Application US/10767701  
;; Publication No. US20040172684A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Kovalic, David K.  
;; APPLICANT: Zhou, Yihua  
;; APPLICANT: Cao, Yongwei  
;; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
;; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
;; FILE REFERENCE: 38-21(53535)B  
;; CURRENT APPLICATION NUMBER: US/10/767,701  
;; CURRENT FILING DATE: 2004-01-29  
;; NUMBER OF SEQ ID NOS: 63128  
;; SEQ ID NO 62514  
;; LENGTH: 173  
;; TYPE: PRT  
;; ORGANISM: Sorghum bicolor  
;; FEATURE:  
;; OTHER INFORMATION: Clone ID: 18062660.pep  
US-10-767-701-62514

Query Match 78.7%; Score 37; DB 4; Length 173;  
Best Local Similarity 66.7%; Pred. No. 41;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LNTGTYNL 9  
: |||:  
Db 111 ITKTGMYNL 119

RESULT 21  
US-10-424-599-165644  
; Sequence 165644, Application US/10424599  
; Publication No. US20040031072A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J  
; APPLICANT: Kovalic David K  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53223)B  
; CURRENT APPLICATION NUMBER: US/10/424,599  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 285684  
; SEQ ID NO 165644  
; LENGTH: 289  
; TYPE: PRT  
; ORGANISM: Glycine max  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT3847\_120592C.1.pep  
US-10-424-599-165644

Query Match  
Best Local Similarity 78.7%; Score 37; DB 4; Length 289;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LNTGTYNL 9  
: |||:  
Db 162 ITKTGMYNL 170

RESULT 22  
US-10-437-963-151032  
; Sequence 151032, Application US/10437963  
; Publication No. US20040123343A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li, Ping  
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53221)B  
; CURRENT APPLICATION NUMBER: US/10/437,963  
; CURRENT FILING DATE: 2003-05-14  
; NUMBER OF SEQ ID NOS: 204966  
; SEQ ID NO 151032  
; LENGTH: 523  
; TYPE: PRT  
; ORGANISM: Oryza sativa  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_51213C.1.pep  
US-10-437-963-151032

Query Match  
Best Local Similarity 78.7%; Score 37; DB 4; Length 523;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LNTGTYNL 9  
: |||:  
Db 180 ITKTGMYNL 188

RESULT 23  
US-10-425-115-343736  
; Sequence 343736, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants  
; FILE REFERENCE: 38-21(53222)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 343736  
; LENGTH: 534  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)..(534)  
; OTHER INFORMATION: unsure at all Xaa locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MRT4577\_76649C.1.pep  
US-10-425-115-343736

Query Match  
Best Local Similarity 78.7%; Score 37; DB 4; Length 534;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LNTGTYNL 9  
: |||:  
Db 193 ITKTGMYNL 201

RESULT 24  
US-10-437-963-146238  
; Sequence 146238, Application US/10437963  
; Publication No. US20040123343A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li, Ping  
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53221)B  
; CURRENT APPLICATION NUMBER: US/10/437,963  
; CURRENT FILING DATE: 2003-05-14  
; NUMBER OF SEQ ID NOS: 204966  
; SEQ ID NO 146238  
; LENGTH: 47  
; TYPE: PRT  
; ORGANISM: Oryza sativa  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_46881C.1.pep  
US-10-437-963-146238

Query Match  
Best Local Similarity 74.5%; Score 35; DB 4; Length 47;  
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 TWTGTYNL 9  
: |||:  
Db 27 TWTGTYNL 34

```
RESULT 25
US-10-767-701-56572
; Sequence 56572, Application US/10767701
; Publication No. US20040172684A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/767,701
; CURRENT FILING DATE: 2004-01-29
; NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 56572
; LENGTH: 189
; TYPE: PRT
; ORGANISM: Sorghum bicolor
; FEATURE:
; OTHER INFORMATION: Clone ID: 30945368.pep
US-10-767-701-56572

Query Match          74.5%; Score 35; DB 4; Length 189;
Best Local Similarity 55.6%; Pred. No. 1.1e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      1 LINTGLYNL 9
Db      171 ITKGTMYNM 179

RESULT 26
US-10-425-115-197706
; Sequence 197706, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 197706
; LENGTH: 233
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(233)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_111891C.1.pep
US-10-425-115-197706

Query Match          74.5%; Score 35; DB 4; Length 233;
Best Local Similarity 55.6%; Pred. No. 1.4e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      1 LINTGLYNL 9
Db      168 ITKGTMYNM 176

RESULT 27
US-10-437-963-176280
; Sequence 176280, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 176280
; LENGTH: 386
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_74043C.1.pep
US-10-437-963-176280

Query Match          74.5%; Score 35; DB 4; Length 386;
Best Local Similarity 55.6%; Pred. No. 2.4e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      1 LINTGLYNL 9
Db      206 ITKGTMYNM 214

RESULT 28
US-10-424-599-155545
; Sequence 155545, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 155545
; LENGTH: 427
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_111478C.1.pep
US-10-424-599-155545

Query Match          74.5%; Score 35; DB 4; Length 427;
Best Local Similarity 75.0%; Pred. No. 2.7e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      2 TINTGLYNL 9
Db      213 SNTGLFNL 220

RESULT 29
US-10-425-115-197705
; Sequence 197705, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
```

```
FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 197705
LENGTH: 516
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_111890C.1.pcp
US-10-425-115-197705

Query Match
Best Local Similarity 74.5%; Score 35; DB 4; Length 516;
Pred. No. 3.3e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 LNTTGLNXL 9
DB 169 ITKTGMN 177

RESULT 30
US-10-425-114-67463
Sequence 67463, Application US/10425114
Publication No. US20040034888A1
GENERAL INFORMATION:
APPLICANT: Liu, Jindong
APPLICANT: Zhou, Yihua
APPLICANT: Kovalic, David K.
APPLICANT: Screen, Steven E.
APPLICANT: Tabaska, Jack B.
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53313)B
CURRENT APPLICATION NUMBER: US/10/425,114
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 73128
SEQ ID NO 67463
LENGTH: 529
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
OTHER INFORMATION: Clone ID: LIB4757-007-C4_FRI.pcp
US-10-425-114-67463

Query Match
Best Local Similarity 74.5%; Score 35; DB 4; Length 529;
Pred. No. 3.4e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 LNTTGLNXL 9
DB 214 ITKTGLN 222

RESULT 31
US-10-282-122A-62548
Sequence 62548, Application US/10282122A
Publication No. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
```

```
FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO 62548
LENGTH: 1721
TYPE: PRT
ORGANISM: Mycobacterium bovis
US-10-282-122A-62548

Query Match
Best Local Similarity 74.5%; Score 35; DB 4; Length 1721;
Pred. No. 1.2e+03;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 TWTGLFN 8
DB 737 TWTGLFN 743

RESULT 32
US-10-282-122A-64364
Sequence 64364, Application US/10282122A
Publication No. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
```

```
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 64364
; LENGTH: 2204
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-10-282-122A-64364

Query Match          74.5%; Score 35; DB 4; Length 2204;
Best Local Similarity 85.7%; Pred. No. 1.6e+03;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

Qy 2 TNTGLYN 8  
Db 242 TNTGLFN 248

```
RESULT 33
US-09-813-329-19
; Sequence 19, Application US/09813329
; Patent No. US20020012968A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: No. US20020012968A1el Drosophila Tumor Necrosis Factor Class Mole
; FILE REFERENCE: D0016.nd
; CURRENT APPLICATION NUMBER: US/09/813,329
; CURRENT FILING DATE: 2001-03-20
; PRIOR APPLICATION NUMBER: 60/190,816
; PRIOR FILING DATE: 2000-03-21
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 19
; LENGTH: 17
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-813-329-19

Query Match          72.3%; Score 34; DB 3; Length 17;
Best Local Similarity 85.7%; Pred. No. 12;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

Qy 1 LNTNGLY 7  
Db 3 VTNTGLY 9

```
RESULT 34
US-09-813-329-20
; Sequence 20, Application US/09813329
; Patent No. US20020012968A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: No. US20020012968A1el Drosophila Tumor Necrosis Factor Class Mole
; FILE REFERENCE: D0016.nd
; CURRENT APPLICATION NUMBER: US/09/813,329
; CURRENT FILING DATE: 2001-03-20
; PRIOR APPLICATION NUMBER: 60/190,816
; PRIOR FILING DATE: 2000-03-21
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 20
; LENGTH: 17
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-813-329-20
```

```
; LENGTH: 17
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-813-329-20

Query Match          72.3%; Score 34; DB 3; Length 17;
Best Local Similarity 85.7%; Pred. No. 12;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

Qy 1 LNTNGLY 7  
Db 3 VTNTGLY 9

```
RESULT 35
US-11-142-736-19
; Sequence 19, Application US/11142736
; Publication No. US20050227283A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: Novel Drosophila Tumor Necrosis Factor Class Molecule ("DMTNF") ar
; FILE REFERENCE: D0016.DIV1
; CURRENT APPLICATION NUMBER: US/11/142,736
; CURRENT FILING DATE: 2005-06-01
; PRIOR APPLICATION NUMBER: 60/190,816
; PRIOR FILING DATE: 2000-03-21
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 19
; LENGTH: 17
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-11-142-736-19

Query Match          72.3%; Score 34; DB 6; Length 17;
Best Local Similarity 85.7%; Pred. No. 12;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

Qy 1 LNTNGLY 7  
Db 3 VTNTGLY 9

```
RESULT 36
US-11-142-736-20
; Sequence 20, Application US/11142736
; Publication No. US20050227283A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: Novel Drosophila Tumor Necrosis Factor Class Molecule ("DMTNF") ar
; FILE REFERENCE: D0016.DIV1
; CURRENT APPLICATION NUMBER: US/11/142,736
; CURRENT FILING DATE: 2005-06-01
; PRIOR APPLICATION NUMBER: 60/190,816
; PRIOR FILING DATE: 2000-03-21
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 20
; LENGTH: 17
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-11-142-736-20

Query Match          72.3%; Score 34; DB 6; Length 17;
Best Local Similarity 85.7%; Pred. No. 12;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

Qy 1 LNTNGLY 7  
Db 3 VTNTGLY 9

```
RESULT 37
US-09-813-329-54
; Sequence 54, Application US/09813329
; Patent No. US20020012968A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: No. US20020012968A1el Drosophila Tumor Necrosis Factor Class Mole
; FILE REFERENCE: D0016.nd
; CURRENT APPLICATION NUMBER: US/09/813,329
; PRIOR FILING DATE: 2001-03-20
; PRIOR APPLICATION NUMBER: 60/190,816
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 54
; LENGTH: 27
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-813-329-54

Query Match      72.3%; Score 34; DB 3; Length 27;
Best Local Similarity 85.7%; Pred. No. 20;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 LTNITGLY 7
      :|||||
Db      8 VTNTGLY 14

RESULT 38
US-09-813-329-64
; Sequence 64, Application US/09813329
; Patent No. US20020012968A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: No. US20020012968A1el Drosophila Tumor Necrosis Factor Class Mole
; FILE REFERENCE: D0016.nd
; CURRENT APPLICATION NUMBER: US/09/813,329
; PRIOR FILING DATE: 2001-03-20
; PRIOR APPLICATION NUMBER: 60/190,816
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 64
; LENGTH: 27
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-813-329-64

Query Match      72.3%; Score 34; DB 3; Length 27;
Best Local Similarity 85.7%; Pred. No. 20;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 LTNITGLY 7
      :|||||
Db      8 VTNTGLY 14

RESULT 39
US-11-142-736-54
; Sequence 54, Application US/11142736
; Publication No. US20050227283A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: Novel Drosophila Tumor Necrosis Factor Class Molecule ("DmTNF")
; FILE REFERENCE: D0016.D1V1
; CURRENT APPLICATION NUMBER: US/11/142,736
; PRIOR FILING DATE: 2005-06-01
; PRIOR APPLICATION NUMBER: 60/190,816
```

```
; PRIOR FILING DATE: 2000-03-21
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 54
; LENGTH: 27
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-11-142-736-54

Query Match      72.3%; Score 34; DB 6; Length 27;
Best Local Similarity 85.7%; Pred. No. 20;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 LTNITGLY 7
      :|||||
Db      8 VTNTGLY 14

RESULT 40
US-11-142-736-64
; Sequence 64, Application US/11142736
; Publication No. US20050227283A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: Novel Drosophila Tumor Necrosis Factor Class Molecule ("DmTNF")
; FILE REFERENCE: D0016.D1V1
; CURRENT APPLICATION NUMBER: US/11/142,736
; PRIOR FILING DATE: 2005-06-01
; PRIOR APPLICATION NUMBER: 60/190,816
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 64
; LENGTH: 27
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-11-142-736-64

Query Match      72.3%; Score 34; DB 6; Length 27;
Best Local Similarity 85.7%; Pred. No. 20;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 LTNITGLY 7
      :|||||
Db      8 VTNTGLY 14

RESULT 41
US-10-437-963-175271
; Sequence 175271, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; PRIOR FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 175271
; LENGTH: 68
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_73132C.1.pap
```

US-10-437-963-175271

Query Match 72.3%; Score 34; DB 4; Length 68;  
Best Local Similarity 75.0%; Pred. No. 56;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 LTNGLYNL 8  
|:|:|:|:  
DB 25 LSNCTYV 32

RESULT 42

US-10-767-701-42259  
; Sequence 42259, Application US/10767701  
; Publication No. US20040172684A1  
; GENERAL INFORMATION:  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with  
; TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement  
; FILE REFERENCE: 38-21(5353)B  
; CURRENT APPLICATION NUMBER: US/10/767,701  
; CURRENT FILING DATE: 2004-01-29  
; NUMBER OF SEQ ID NOS: 63128  
; SEQ ID NO 42259  
; LENGTH: 181  
; TYPE: PRT  
; ORGANISM: Sorghum bicolor  
; FEATURE:  
; OTHER INFORMATION: Clone ID: SORBI-28WAY03-C33563\_1.pep  
US-10-767-701-42259

Query Match 72.3%; Score 34; DB 4; Length 181;  
Best Local Similarity 62.5%; Pred. No. 1.6e+02;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

OY 2 LTNGLYNL 9  
|:|:|:|:  
DB 115 TDTGNTNI 122

RESULT 43

US-09-925-297-484  
; Sequence 484, Application US/09925297  
; Patent No. US20020081659A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
; FILE REFERENCE: PA105  
; CURRENT APPLICATION NUMBER: US/09/925,297  
; CURRENT FILING DATE: 2001-08-10  
; PRIOR APPLICATION NUMBER: PCT/US00/05989  
; PRIOR FILING DATE: 2000-03-08  
; PRIOR APPLICATION NUMBER: 60/124,270  
; PRIOR FILING DATE: 1999-03-12  
; NUMBER OF SEQ ID NOS: 928  
; SOFTWARE: Patent Ver. 2.0  
; SEQ ID NO 484  
; LENGTH: 211  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-925-297-484

Query Match 72.3%; Score 34; DB 3; Length 211;  
Best Local Similarity 85.7%; Pred. No. 1.9e+02;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 3 NTGLYNL 9  
|:|:|:|:  
DB 68 NTGLFNL 74

RESULT 44

US-10-094-749-1949  
; Sequence 1949, Application US/10094749  
; Publication No. US20030219741A1  
; GENERAL INFORMATION:  
; APPLICANT: ISOGAI, TAKAO  
; APPLICANT: SUGIYAMA, TOMOYASU  
; APPLICANT: OTSUKI, TETSUJI  
; APPLICANT: MAKAMATSU, AI  
; APPLICANT: SATO, HIROYUKI  
; APPLICANT: ISHII, SHIZUKO  
; APPLICANT: YAMAMOTO, JUN-ICHI  
; APPLICANT: ISONO, YUUKO  
; APPLICANT: HIO, YURI  
; APPLICANT: OTSUKA, KAORU  
; APPLICANT: NAGAI, KEIICHI  
; APPLICANT: IRIE, RYOTARO  
; APPLICANT: TAMECHIKA, ICHIRO  
; APPLICANT: SEKI, NAOHICO  
; APPLICANT: YOSHIKAWA, TSUTOMU  
; APPLICANT: OTSUKA, MOTOFUKI  
; APPLICANT: NAGAHARI, KENJI  
; APPLICANT: MASUHO, YASUHIKO  
; TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA  
; FILE REFERENCE: 084335/0160  
; CURRENT APPLICATION NUMBER: US/10/094,749  
; CURRENT FILING DATE: 2002-03-12  
; PRIOR APPLICATION NUMBER: 60/350,435  
; PRIOR FILING DATE: 2002-01-24  
; PRIOR APPLICATION NUMBER: JP 2001-328381  
; PRIOR FILING DATE: 2001-09-14  
; NUMBER OF SEQ ID NOS: 3381  
; SOFTWARE: Patent Ver. 2.1  
; SEQ ID NO 1949  
; LENGTH: 213  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-094-749-1949

Query Match 72.3%; Score 34; DB 4; Length 213;  
Best Local Similarity 66.7%; Pred. No. 2e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 LTNGLYNL 9  
|:|:|:|:  
DB 190 LPTGLYNM 198

RESULT 45

US-10-104-047-3590  
; Sequence 3590, Application US/10104047  
; Publication No. US20030236392A1  
; GENERAL INFORMATION:  
; APPLICANT: HELIX RESEARCH INSTITUTE  
; TITLE OF INVENTION: NO. US20030236392A1el full length cdna  
; FILE REFERENCE: H1-A0105  
; CURRENT APPLICATION NUMBER: US/10/104,047  
; CURRENT FILING DATE: 2002-03-25  
; PRIOR APPLICATION NUMBER:  
; PRIOR FILING DATE:  
; NUMBER OF SEQ ID NOS: 4096  
; SOFTWARE: Patent Ver. 2.1  
; SEQ ID NO 3590  
; LENGTH: 258  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-104-047-3590

Query Match 72.3%; Score 34; DB 4; Length 258;  
Best Local Similarity 85.7%; Pred. No. 2.4e+02;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 3 NTGLYNL 9



Db 57 NTGFLNL 63

RESULT 46  
US-11-097-143-29451  
; Sequence 29451, Application US/11097143  
; Publication No. US20050208558A1  
; GENERAL INFORMATION:  
; APPLICANT: Venier, J. Craig  
; APPLICANT: et al.  
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID  
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE  
; FILE REFERENCE: CL000728  
; CURRENT APPLICATION NUMBER: US/11/097,143  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: 60/157,832  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: 60/160,191  
; PRIOR FILING DATE: 1999-10-19  
; PRIOR APPLICATION NUMBER: 60/161,932  
; PRIOR FILING DATE: 1999-10-28  
; PRIOR APPLICATION NUMBER: 60/164,769  
; PRIOR FILING DATE: 1999-11-12  
; PRIOR APPLICATION NUMBER: 60/173,383  
; PRIOR FILING DATE: 1999-12-28  
; PRIOR APPLICATION NUMBER: 60/175,693  
; PRIOR FILING DATE: 2000-01-12  
; PRIOR APPLICATION NUMBER: 60/184,831  
; PRIOR FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: 60/191,637  
; PRIOR FILING DATE: 2000-03-23  
; NUMBER OF SEQ ID NOS: 43008  
; SOFTWARE: FastSeq for windows Version 4.0  
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; LENGTH: 325  
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; ORGANISM: DROSOPHILA  
US-11-097-143-29451

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Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 LNTGFLY 7  
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RESULT 47  
US-10-085-198-24  
; Sequence 24, Application US/10085198  
; Publication No. US2004000907A1  
; GENERAL INFORMATION:  
; APPLICANT: Alsbrook et al.  
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same  
; FILE REFERENCE: 21402-279  
; CURRENT APPLICATION NUMBER: US/10/085,198  
; CURRENT FILING DATE: 2002-02-25  
; PRIOR APPLICATION NUMBER: 60/271,646  
; PRIOR FILING DATE: 2001-02-26  
; PRIOR APPLICATION NUMBER: 60/276,401  
; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/311,981  
; PRIOR FILING DATE: 2001-08-13  
; PRIOR APPLICATION NUMBER: 60/312,858  
; PRIOR FILING DATE: 2001-08-16  
; PRIOR APPLICATION NUMBER: 60/271,840  
; PRIOR FILING DATE: 2001-02-27  
; PRIOR APPLICATION NUMBER: 60/277,324  
; PRIOR FILING DATE: 2001-03-20  
; PRIOR APPLICATION NUMBER: 60/286,096

; PRIOR FILING DATE: 2001-04-21  
; PRIOR APPLICATION NUMBER: 60/299,695  
; PRIOR FILING DATE: 2001-06-20  
; PRIOR APPLICATION NUMBER: 60/315,614  
; PRIOR FILING DATE: 2001-08-29  
; PRIOR APPLICATION NUMBER: 60/272,405  
; PRIOR FILING DATE: 2001-02-28  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 653  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 24  
; LENGTH: 356  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-085-198-24

Query Match 72.3%; Score 34; DB 4; Length 356;  
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Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LNTGFLY 9  
Db 333 LPDTGLYNN 341

RESULT 48  
US-10-425-115-304104  
; Sequence 304104, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants  
; FILE REFERENCE: 38-21(53222)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 304104  
; LENGTH: 390  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MRT4577\_40413C.1.pep  
US-10-425-115-304104

Query Match 72.3%; Score 34; DB 4; Length 390;  
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RESULT 49  
US-10-062-254-294  
; Sequence 294, Application US/10062254  
; Publication No. US20020138882A1  
; GENERAL INFORMATION:  
; APPLICANT: Cahoon, Edgar B  
; APPLICANT: Cahoon, Rebecca E  
; APPLICANT: Falco, Saverio Carl  
; APPLICANT: Fang, Yiwen  
; APPLICANT: Hancke, Sabine S.  
; APPLICANT: Lee, Jian-Ming  
; APPLICANT: Li, Zhongsen  
; APPLICANT: Miao, Guo-Hua  
; APPLICANT: Morgante, Michele  
; APPLICANT: Niu Xiping  
; APPLICANT: Odell, Joan

Search completed: May 5, 2006, 08:50:05  
Job time : 61.3 secs

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; APPLICANT: Rafaleki, Antoni
; APPLICANT: Sakai, Hajime
; APPLICANT: Zheng, Peizhong
; APPLICANT: Zhu, Qun
; TITLE OF INVENTION: Polynucleotides Encoding Proteins Involved in Plant Metabolism
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/062,254
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: 09/630,346
; PRIOR FILING DATE: 2000-07-28
; PRIOR APPLICATION NUMBER: 60/146511
; PRIOR FILING DATE: 1999-07-30
; PRIOR APPLICATION NUMBER: 60/156006
; PRIOR FILING DATE: 1999-09-23
; PRIOR APPLICATION NUMBER: 60/156899
; PRIOR FILING DATE: 1999-09-30
; PRIOR APPLICATION NUMBER: 60/157287
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 60/169767
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/171054
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: 60/172958
; PRIOR FILING DATE: 1999-12-21
; PRIOR APPLICATION NUMBER: 60/171515
; PRIOR FILING DATE: 1999-12-22
; PRIOR APPLICATION NUMBER: 60/173535
; PRIOR FILING DATE: 1999-12-29
; NUMBER OF SEQ ID NOS: 375
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 294
; LENGTH: 393
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; ORGANISM: Zea mays
US-10-062-254-294
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; Sequence 4, Application US/09813329
; Patent No. US20020012968A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: No. US20020012968A1el Drosophila Tumor Necrosis Factor Class Mole
; FILE REFERENCE: D0016.np
; CURRENT APPLICATION NUMBER: US/09/813,329
; PRIOR FILING DATE: 2001-03-20
; PRIOR APPLICATION NUMBER: 60/190,816
; PRIOR FILING DATE: 2000-03-21
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4
; LENGTH: 406
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-813-329-4
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Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

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5	37	78.7	11	9	US-10-530-061-111
6	37	78.7	158	9	US-10-530-253-19
7	37	78.7	158	9	US-10-530-253-20
8	37	78.7	158	9	US-10-530-253-26
9	35	74.5	2204	11	US-11-052-554A-134
10	35	74.5	3716	11	US-11-052-554A-141
11	34	72.3	258	11	US-11-072-512-3580
12	34	72.3	326	11	US-11-087-099-731
13	34	72.3	688	9	US-10-878-556A-132
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28	32	68.1	115	9	US-10-963-439-14	Sequence 14, App1
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31	32	68.1	552	11	US-11-079-463-7583	Sequence 7583, Ap
32	32	68.1	596	11	US-11-052-554A-168	Sequence 168, App
33	32	68.1	707	9	US-10-963-439-6	Sequence 6, App1
34	32	68.1	728	10	US-11-311-555-18	Sequence 18, App1
35	32	68.1	728	10	US-11-311-561-18	Sequence 18, App1
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37	32	68.1	739	9	US-10-963-439-5	Sequence 5, App1
38	31	66.0	13	11	US-11-152-974A-318	Sequence 318, App
39	31	66.0	13	11	US-11-153-143A-318	Sequence 318, App
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45	31	66.0	744	11	US-11-087-099-3289	Sequence 3289, Ap
46	31	66.0	948	9	US-10-523-477-14	Sequence 14, App1
47	30	63.8	8	9	US-10-503-693-185	Sequence 185, App
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51	30	63.8	297	11	US-11-096-568A-25905	Sequence 25905, A
52	30	63.8	328	11	US-11-087-099-7553	Sequence 7553, Ap
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57	30	63.8	354	11	US-11-052-554A-156	Sequence 156, App
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71	30	63.8	693	9	US-10-216-161A-483	Sequence 483, App
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83	30	63.8	1436	11	US-11-052-554A-140	Sequence 140, App
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89	29	61.7	32	9	US-10-895-064-2815	Sequence 2815, Ap
90	29	61.7	32	11	US-11-129-741-2815	Sequence 2815, Ap
91	29	61.7	60	11	US-11-079-463-9582	Sequence 9582, Ap
92	29	61.7	63	11	US-11-000-463-330	Sequence 330, App
93	29	61.7	186	11	US-11-096-568A-23035	Sequence 23035, A
94	29	61.7	196	11	US-11-079-463-7124	Sequence 7124, Ap

95	29	61.7	202	11	US-11-079-463-8380	Sequence 8380, Ap	168	28	59.6	339	9	US-10-517-939-154	Sequence 154, App
96	29	61.7	220	11	US-11-096-568A-23034	Sequence 23034, A	169	28	59.6	339	11	US-11-096-568A-23797	Sequence 23797, A
97	29	61.7	257	11	US-11-036-568A-23033	Sequence 23033, A	170	28	59.6	342	9	US-10-517-939-220	Sequence 220, App
98	29	61.7	304	11	US-11-188-298-22404	Sequence 22404, A	171	28	59.6	346	9	US-10-517-939-160	Sequence 160, App
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101	29	61.7	311	9	US-10-793-626-3080	Sequence 3080, Ap	174	28	59.6	346	11	US-11-188-298-11140	Sequence 11740, A
102	29	61.7	346	11	US-11-188-298-1719	Sequence 1719, Ap	175	28	59.6	347	9	US-10-517-939-196	Sequence 196, App
103	29	61.7	396	11	US-11-087-099-8866	Sequence 8866, Ap	176	28	59.6	347	9	US-10-517-939-222	Sequence 222, App
104	29	61.7	398	9	US-10-703-799B-256	Sequence 256, App	177	28	59.6	347	9	US-10-517-939-254	Sequence 254, App
105	29	61.7	424	11	US-11-188-298-2841	Sequence 2841, Ap	178	28	59.6	348	9	US-10-517-939-162	Sequence 162, App
106	29	61.7	425	11	US-11-087-099-11192	Sequence 11192, A	179	28	59.6	348	9	US-10-517-939-166	Sequence 166, App
107	29	61.7	432	9	US-10-836-993-1	Sequence 1, App1	180	28	59.6	348	9	US-10-517-939-100	Sequence 300, App
108	29	61.7	435	11	US-11-098-686-10376	Sequence 10376, A	181	28	59.6	349	11	US-11-096-568A-3298	Sequence 3298, Ap
109	29	61.7	436	11	US-11-098-686-10533	Sequence 10533, A	182	28	59.6	351	11	US-11-219-282-34	Sequence 34, App1
110	29	61.7	463	11	US-11-087-099-8687	Sequence 8687, Ap	183	28	59.6	352	9	US-10-517-939-226	Sequence 226, App
111	29	61.7	476	11	US-11-264-728-2	Sequence 2, App1	184	28	59.6	354	9	US-10-517-939-200	Sequence 200, App
112	29	61.7	496	11	US-11-067-121-3	Sequence 3, App1	185	28	59.6	354	9	US-10-517-939-216	Sequence 216, App
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114	29	61.7	510	11	US-11-188-298-20873	Sequence 20873, A	187	28	59.6	356	11	US-11-219-282-32	Sequence 32, App1
115	29	61.7	544	9	US-10-703-799B-254	Sequence 254, App	188	28	59.6	357	11	US-11-241-347-10	Sequence 10, App1
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131	29	61.7	3433	9	US-10-714-781A-67	Sequence 67, App	204	28	59.6	400	11	US-11-079-463-5896	Sequence 5896, Ap
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134	28	59.6	24	9	US-10-973-977-38	Sequence 38, App1	207	28	59.6	409	11	US-11-087-099-6275	Sequence 6275, App
135	28	59.6	122	11	US-11-045-004-2281	Sequence 2281, Ap	208	28	59.6	409	11	US-11-096-568A-19735	Sequence 19735, A
136	28	59.6	123	11	US-11-052-554A-242	Sequence 242, App	209	28	59.6	418	11	US-11-186-284-187	Sequence 187, App
137	28	59.6	149	9	US-10-986-405-271	Sequence 271, App	210	28	59.6	420	11	US-11-096-568A-15344	Sequence 15344, A
138	28	59.6	184	11	US-11-072-512-2428	Sequence 2428, Ap	211	28	59.6	428	11	US-11-087-099-7343	Sequence 7343, Ap
139	28	59.6	188	11	US-11-079-463-9770	Sequence 9770, Ap	212	28	59.6	430	11	US-11-098-686-11151	Sequence 11151, A
140	28	59.6	204	11	US-11-045-004-1858	Sequence 1858, Ap	213	28	59.6	434	11	US-11-188-298-3119	Sequence 3119, Ap
141	28	59.6	213	11	US-11-096-568A-20459	Sequence 20459, A	214	28	59.6	435	11	US-11-188-298-119856	Sequence 119856, A
142	28	59.6	218	11	US-11-018-868-137	Sequence 137, App	215	28	59.6	437	11	US-11-188-298-7342	Sequence 7342, Ap
143	28	59.6	228	11	US-11-087-099-6742	Sequence 6742, Ap	216	28	59.6	437	11	US-11-096-568A-16343	Sequence 16343, A
144	28	59.6	237	11	US-11-045-004-386	Sequence 386, App	217	28	59.6	454	11	US-11-087-099-3231	Sequence 3231, Ap
145	28	59.6	244	11	US-11-054-515-1842	Sequence 1842, Ap	218	28	59.6	454	11	US-11-087-099-5843	Sequence 5843, Ap
146	28	59.6	244	11	US-11-266-444-1842	Sequence 1842, Ap	219	28	59.6	454	11	US-11-188-298-5311	Sequence 5311, Ap
147	28	59.6	256	11	US-11-188-298-13426	Sequence 13426, A	220	28	59.6	458	11	US-11-087-099-604	Sequence 604, App
148	28	59.6	263	11	US-11-096-568A-29616	Sequence 29616, A	221	28	59.6	458	11	US-11-188-298-11567	Sequence 11567, A
149	28	59.6	271	11	US-11-096-568A-23798	Sequence 23798, A	222	28	59.6	461	11	US-11-079-463-5508	Sequence 5508, Ap
150	28	59.6	282	11	US-11-087-099-10345	Sequence 10345, A	223	28	59.6	469	11	US-11-087-099-3950	Sequence 3950, Ap
151	28	59.6	282	11	US-11-188-298-20559	Sequence 20559, A	224	28	59.6	469	11	US-11-188-298-3713	Sequence 3713, Ap
152	28	59.6	287	11	US-11-087-099-4849	Sequence 4849, Ap	225	28	59.6	476	11	US-11-188-298-19141	Sequence 19141, A
153	28	59.6	294	11	US-11-079-463-5249	Sequence 5249, Ap	226	28	59.6	483	9	US-10-632-150-48	Sequence 48, App1
154	28	59.6	302	11	US-11-219-282-35	Sequence 35, App1	227	28	59.6	483	10	US-11-106-014-48	Sequence 48, App1
155	28	59.6	306	11	US-11-087-099-1397	Sequence 1397, App	228	28	59.6	483	11	US-11-073-457-48	Sequence 48, App1
156	28	59.6	306	11	US-11-188-298-1409	Sequence 1409, Ap	229	28	59.6	483	11	US-11-073-463-48	Sequence 48, App1
157	28	59.6	316	11	US-11-096-568A-3300	Sequence 3300, Ap	230	28	59.6	489	11	US-11-079-463-9599	Sequence 9599, Ap
158	28	59.6	318	11	US-11-194-246-294	Sequence 294, App	231	28	59.6	493	9	US-10-131-826A-268	Sequence 268, App
159	28	59.6	321	11	US-11-087-099-9874	Sequence 9874, Ap	232	28	59.6	493	9	US-10-973-115B-268	Sequence 268, App
160	28	59.6	326	11	US-11-096-568A-10662	Sequence 10662, A	233	28	59.6	493	9	US-10-137-873A-268	Sequence 268, App
161	28	59.6	328	11	US-11-055-822-554	Sequence 554, App	234	28	59.6	493	9	US-10-152-370-268	Sequence 268, App
162	28	59.6	328	11	US-11-055-822-555	Sequence 556, App	235	28	59.6	493	11	US-11-067-121-10	Sequence 10, App1
163	28	59.6	329	11	US-11-096-568A-6040	Sequence 6040, Ap	236	28	59.6	493	11	US-11-067-121-20	Sequence 20, App1
164	28	59.6	334	11	US-11-188-298-5874	Sequence 5874, Ap	237	28	59.6	493	11	US-11-290-153-268	Sequence 268, App
165	28	59.6	334	11	US-11-188-298-11035	Sequence 11033, A	238	28	59.6	497	11	US-11-072-512-3603	Sequence 3603, Ap
166	28	59.6	335	9	US-10-467-657-2072	Sequence 2072, Ap	239	28	59.6	509	11	US-11-096-568A-6039	Sequence 6039, Ap
167	28	59.6	338	11	US-11-096-568A-3239	Sequence 3299, Ap	240	28	59.6	547	11	US-11-079-463-9820	Sequence 9820, Ap

241	28	59.6	548	11	US-11-079-463-10360	Sequence 10360, A	314	27	57.4	247	9	US-10-131-826A-284	Sequence 284, App
242	28	59.6	561	11	US-11-087-099-8494	Sequence 8494, Ap	315	27	57.4	247	9	US-10-973-115B-284	Sequence 284, App
243	28	59.6	566	11	US-11-087-099-7404	Sequence 7404, Ap	316	27	57.4	247	9	US-10-137-873A-284	Sequence 284, App
244	28	59.6	589	11	US-11-045-004-11	Sequence 11, Appl	317	27	57.4	247	9	US-10-152-370-284	Sequence 284, App
245	28	59.6	608	11	US-11-226-701-8	Sequence 8, Appl	318	27	57.4	247	11	US-11-290-153-284	Sequence 284, App
246	28	59.6	608	11	US-11-241-347-8	Sequence 9, Appl	319	27	57.4	248	11	US-11-106-820-16	Sequence 16, Appl
247	28	59.6	608	11	US-11-241-347-8	Sequence 9, Appl	320	27	57.4	248	11	US-11-190-364-15	Sequence 15, Appl
248	28	59.6	637	9	US-10-467-657-1594	Sequence 1594, Ap	321	27	57.4	248	11	US-11-147-880-15	Sequence 110, App
249	28	59.6	661	11	US-11-188-298-17824	Sequence 17824, A	322	27	57.4	250	11	US-11-054-669-110	Sequence 27, Appl
250	28	59.6	665	11	US-11-188-298-17869	Sequence 17869, A	323	27	57.4	251	11	US-11-259-232-27	Sequence 20, Appl
251	28	59.6	692	11	US-11-188-298-17661	Sequence 17661, A	324	27	57.4	253	11	US-11-106-820-20	Sequence 18, Appl
252	28	59.6	769	9	US-10-485-517-401	Sequence 401, App	325	27	57.4	253	11	US-11-190-364-18	Sequence 18, Appl
253	28	59.6	776	11	US-11-188-298-1117	Sequence 7117, Ap	326	27	57.4	253	11	US-11-147-880-18	Sequence 44, Appl
254	28	59.6	777	11	US-11-188-298-4859	Sequence 4859, Ap	327	27	57.4	253	11	US-11-259-232-42	Sequence 52, Appl
255	28	59.6	777	11	US-11-188-298-9417	Sequence 9417, A	328	27	57.4	253	11	US-11-259-232-55	Sequence 55, Appl
256	28	59.6	777	11	US-11-188-298-15702	Sequence 15702, A	329	27	57.4	253	11	US-11-259-232-55	Sequence 55, Appl
257	28	59.6	834	11	US-11-087-099-10005	Sequence 10005, A	330	27	57.4	255	11	US-11-188-298-1914	Sequence 34, Appl
258	28	59.6	836	11	US-11-165-819-3	Sequence 3, Appl	331	27	57.4	256	11	US-11-137-465-34	Sequence 70, Appl
259	28	59.6	858	11	US-11-087-099-916	Sequence 916, App	332	27	57.4	256	11	US-11-259-232-70	Sequence 8945, Ap
260	28	59.6	863	11	US-11-087-099-613	Sequence 613, App	333	27	57.4	261	11	US-11-188-298-8945	Sequence 2130, App
261	28	59.6	863	11	US-11-188-298-11584	Sequence 11584, A	334	27	57.4	268	11	US-11-096-568A-2130	Sequence 12719, A
262	28	59.6	914	9	US-10-455-772-666	Sequence 666, App	335	27	57.4	270	11	US-11-096-568A-12719	Sequence 32124, A
263	28	59.6	914	9	US-10-455-772-666	Sequence 666, App	336	27	57.4	290	11	US-11-096-568A-32124	Sequence 9097, Ap
264	28	59.6	967	9	US-10-455-772-664	Sequence 664, App	337	27	57.4	294	11	US-11-096-568A-9097	Sequence 31468, A
265	28	59.6	982	11	US-11-079-463-7556	Sequence 7556, Ap	338	27	57.4	296	11	US-11-096-568A-31468	Sequence 60, Appl
266	28	59.6	1109	11	US-11-096-568A-29006	Sequence 29006, A	339	27	57.4	298	11	US-11-259-232-60	Sequence 26, Appl
267	28	59.6	1294	11	US-11-052-554A-340	Sequence 340, App	340	27	57.4	302	11	US-11-126-427-26	Sequence 20664, A
268	28	59.6	1382	11	US-11-098-686-10934	Sequence 10934, A	341	27	57.4	304	11	US-11-096-568A-20664	Sequence 26, Appl
269	28	59.6	1606	9	US-10-501-841-18	Sequence 18, Appl	342	27	57.4	306	9	US-10-798-579A-26	Sequence 26, Appl
270	28	59.6	1643	11	US-11-052-554A-172	Sequence 172, App	343	27	57.4	307	11	US-11-087-099-337	Sequence 337, App
271	28	59.6	1843	11	US-11-102-476-46	Sequence 46, Appl	344	27	57.4	310	11	US-11-087-099-337	Sequence 337, App
272	28	59.6	2004	9	US-10-469-469-250	Sequence 250, App	345	27	57.4	312	9	US-11-096-568A-32069	Sequence 2166, Ap
273	27	57.4	11	9	US-10-530-061-51	Sequence 51, Appl	346	27	57.4	315	11	US-10-793-626-2186	Sequence 625, App
274	27	57.4	11	9	US-10-530-061-487	Sequence 487, App	347	27	57.4	319	11	US-11-056-454-625	Sequence 2129, Ap
275	27	57.4	50	11	US-11-096-568A-3339	Sequence 3339, Ap	348	27	57.4	319	11	US-11-096-568A-2129	Sequence 36, Appl
276	27	57.4	96	9	US-10-467-657-4198	Sequence 4198, App	349	27	57.4	326	9	US-10-999-866-36	Sequence 36, Appl
277	27	57.4	98	10	US-11-219-563-138	Sequence 138, App	350	27	57.4	326	9	US-10-988-207-24	Sequence 24, Appl
278	27	57.4	98	11	US-11-025-712-1	Sequence 1, Appl	351	27	57.4	326	9	US-10-493-909-22	Sequence 67, Appl
279	27	57.4	98	11	US-11-025-712-2	Sequence 2, Appl	352	27	57.4	326	10	US-11-091-234A-36	Sequence 36, Appl
280	27	57.4	98	11	US-11-025-712-3	Sequence 3, Appl	353	27	57.4	326	11	US-11-144-248-58	Sequence 28, Appl
281	27	57.4	98	11	US-11-025-712-4	Sequence 4, Appl	354	27	57.4	326	11	US-11-061-821-36	Sequence 2, Appl
282	27	57.4	98	11	US-11-218-813-138	Sequence 138, App	355	27	57.4	326	11	US-11-102-621-2	Sequence 10, Appl
283	27	57.4	100	11	US-11-025-712-7	Sequence 7, Appl	356	27	57.4	326	11	US-11-102-621-10	Sequence 11, Appl
284	27	57.4	103	11	US-11-075-351-48	Sequence 48, Appl	357	27	57.4	326	11	US-11-102-621-11	Sequence 12, Appl
285	27	57.4	103	11	US-11-075-351-50	Sequence 50, Appl	358	27	57.4	326	11	US-11-102-621-12	Sequence 13, Appl
286	27	57.4	103	11	US-11-075-351-51	Sequence 51, Appl	359	27	57.4	326	11	US-11-102-621-13	Sequence 14, Appl
287	27	57.4	103	11	US-11-075-351-57	Sequence 57, Appl	360	27	57.4	326	11	US-11-102-621-14	Sequence 15, Appl
288	27	57.4	104	9	US-10-634-397-168	Sequence 168, App	361	27	57.4	326	11	US-11-102-621-15	Sequence 16, Appl
289	27	57.4	104	11	US-11-075-351-49	Sequence 49, Appl	362	27	57.4	326	11	US-11-102-621-16	Sequence 17, Appl
290	27	57.4	105	9	US-10-821-234-857	Sequence 857, App	363	27	57.4	326	11	US-11-102-621-17	Sequence 18, Appl
291	27	57.4	108	9	US-10-793-626-554	Sequence 554, App	364	27	57.4	326	11	US-11-102-621-18	Sequence 19, Appl
292	27	57.4	110	11	US-11-049-536-520	Sequence 520, App	365	27	57.4	326	11	US-11-102-621-19	Sequence 20, Appl
293	27	57.4	110	11	US-11-199-739-520	Sequence 520, App	366	27	57.4	326	11	US-11-102-621-20	Sequence 21, Appl
294	27	57.4	122	9	US-10-793-626-2012	Sequence 2012, Ap	367	27	57.4	326	11	US-11-102-621-21	Sequence 22, Appl
295	27	57.4	130	9	US-10-485-517-207	Sequence 207, App	368	27	57.4	326	11	US-11-102-621-22	Sequence 23, Appl
296	27	57.4	155	9	US-11-087-099-5352	Sequence 5352, Ap	369	27	57.4	326	11	US-11-102-621-23	Sequence 24, Appl
297	27	57.4	169	9	US-10-917-905-5	Sequence 5, Appl	370	27	57.4	326	11	US-11-102-621-24	Sequence 25, Appl
298	27	57.4	179	11	US-11-096-568A-25088	Sequence 25088, A	371	27	57.4	326	11	US-11-102-621-25	Sequence 26, Appl
299	27	57.4	186	9	US-10-942-698-7	Sequence 7, Appl	372	27	57.4	326	11	US-11-102-621-26	Sequence 27, Appl
300	27	57.4	220	11	US-11-094-625-10	Sequence 10, Appl	373	27	57.4	326	11	US-11-102-621-27	Sequence 28, Appl
301	27	57.4	222	11	US-11-217-995-7	Sequence 7, Appl	374	27	57.4	326	11	US-11-102-621-28	Sequence 29, Appl
302	27	57.4	225	11	US-11-087-099-472	Sequence 472, App	375	27	57.4	326	11	US-11-102-621-29	Sequence 30, Appl
303	27	57.4	229	9	US-10-923-327-13	Sequence 13, Appl	376	27	57.4	326	11	US-11-102-621-30	Sequence 31, Appl
304	27	57.4	229	9	US-10-923-327-14	Sequence 14, Appl	377	27	57.4	326	11	US-11-102-621-31	Sequence 32, Appl
305	27	57.4	222	11	US-11-025-712-10	Sequence 10, Appl	378	27	57.4	326	11	US-11-102-621-32	Sequence 33, Appl
306	27	57.4	232	11	US-11-173-564-2	Sequence 2, Appl	379	27	57.4	326	11	US-11-102-621-33	Sequence 34, Appl
307	27	57.4	233	9	US-10-923-327-18	Sequence 18, Appl	380	27	57.4	326	11	US-11-102-621-34	Sequence 35, Appl
308	27	57.4	233	9	US-10-923-327-19	Sequence 19, Appl	381	27	57.4	326	11	US-11-102-621-35	Sequence 36, Appl
309	27	57.4	236	11	US-11-000-463-394	Sequence 394, App	382	27	57.4	326	11	US-11-102-621-36	Sequence 37, Appl
310	27	57.4	240	11	US-11-221-900-2	Sequence 2, Appl	383	27	57.4	326	11	US-11-102-621-37	Sequence 38, Appl
311	27	57.4	241	11	US-11-096-568A-25087	Sequence 25087, A	384	27	57.4	326	11	US-11-102-621-38	Sequence 39, Appl
312	27	57.4	241	11	US-11-079-463-9266	Sequence 9266, Ap	385	27	57.4	326	11	US-11-102-621-39	Sequence 39, Appl
313	27	57.4	243	11	US-11-096-568A-16381	Sequence 16381, A	386	27	57.4	326	11	US-11-102-621-39	Sequence 39, Appl

387	27	57.4	326	11	US-11-102-621-40	Sequence 40, Appl	460	27	57.4	330	11	US-11-102-621-7	Sequence 7, Appl
388	27	57.4	326	11	US-11-102-621-41	Sequence 41, Appl	461	27	57.4	330	11	US-11-102-621-67	Sequence 67, Appl
389	27	57.4	326	11	US-11-102-621-42	Sequence 42, Appl	462	27	57.4	330	11	US-11-102-621-68	Sequence 68, Appl
390	27	57.4	326	11	US-11-102-621-43	Sequence 43, Appl	463	27	57.4	330	11	US-11-102-621-69	Sequence 69, Appl
391	27	57.4	326	11	US-11-102-621-44	Sequence 44, Appl	464	27	57.4	330	11	US-11-102-621-70	Sequence 70, Appl
392	27	57.4	326	11	US-11-102-621-45	Sequence 45, Appl	465	27	57.4	330	11	US-11-102-621-71	Sequence 71, Appl
393	27	57.4	326	11	US-11-102-621-46	Sequence 46, Appl	466	27	57.4	330	11	US-11-102-621-75	Sequence 75, Appl
394	27	57.4	326	11	US-11-102-621-47	Sequence 47, Appl	467	27	57.4	330	11	US-11-102-621-76	Sequence 76, Appl
395	27	57.4	326	11	US-11-102-621-48	Sequence 48, Appl	468	27	57.4	330	11	US-11-005-726-164	Sequence 164, App
396	27	57.4	326	11	US-11-102-621-49	Sequence 49, Appl	469	27	57.4	330	11	US-11-124-620-1	Sequence 1, Appl
397	27	57.4	326	11	US-11-102-621-50	Sequence 50, Appl	470	27	57.4	330	11	US-11-233-683-1	Sequence 1, Appl
398	27	57.4	326	11	US-11-102-621-51	Sequence 51, Appl	471	27	57.4	330	11	US-11-201-825-55	Sequence 55, Appl
399	27	57.4	326	11	US-11-102-621-52	Sequence 52, Appl	472	27	57.4	330	11	US-11-218-813-136	Sequence 136, App
400	27	57.4	326	11	US-11-102-621-53	Sequence 53, Appl	473	27	57.4	332	9	US-10-895-064-22	Sequence 22, Appl
401	27	57.4	326	11	US-11-102-621-54	Sequence 54, Appl	474	27	57.4	332	11	US-11-129-741-22	Sequence 22, Appl
402	27	57.4	326	11	US-11-102-621-55	Sequence 55, Appl	475	27	57.4	332	11	US-11-122-622-98	Sequence 98, Appl
403	27	57.4	326	11	US-11-102-621-56	Sequence 56, Appl	476	27	57.4	332	11	US-11-096-568A-20663	Sequence 20663, A
404	27	57.4	326	11	US-11-102-621-57	Sequence 57, Appl	477	27	57.4	333	11	US-11-096-568A-31931	Sequence 31931, A
405	27	57.4	326	11	US-11-102-621-58	Sequence 58, Appl	478	27	57.4	334	11	US-11-096-568A-33123	Sequence 33123, A
406	27	57.4	326	11	US-11-102-621-59	Sequence 59, Appl	479	27	57.4	335	11	US-11-024-251-35	Sequence 35, Appl
407	27	57.4	326	11	US-11-102-621-60	Sequence 60, Appl	480	27	57.4	336	11	US-11-188-298-10338	Sequence 10338, A
408	27	57.4	326	11	US-11-102-621-61	Sequence 61, Appl	481	27	57.4	339	9	US-10-999-866-35	Sequence 35, Appl
409	27	57.4	326	11	US-11-102-621-62	Sequence 62, Appl	482	27	57.4	339	9	US-10-935-0058-66	Sequence 66, Appl
410	27	57.4	326	11	US-11-102-621-63	Sequence 63, Appl	483	27	57.4	339	10	US-11-091-234A-35	Sequence 35, Appl
411	27	57.4	326	11	US-11-102-621-64	Sequence 64, Appl	484	27	57.4	339	11	US-11-061-821-35	Sequence 35, Appl
412	27	57.4	326	11	US-11-102-621-65	Sequence 65, Appl	485	27	57.4	341	11	US-11-069-643-4	Sequence 4, Appl
413	27	57.4	326	11	US-11-102-621-66	Sequence 66, Appl	486	27	57.4	343	11	US-11-079-463-7042	Sequence 7042, Ap
414	27	57.4	326	11	US-11-102-621-72	Sequence 72, Appl	487	27	57.4	348	11	US-11-188-298-16753	Sequence 16753, A
415	27	57.4	326	11	US-11-102-621-73	Sequence 73, Appl	488	27	57.4	349	11	US-11-188-298-16453	Sequence 16453, A
416	27	57.4	326	11	US-11-102-621-74	Sequence 74, Appl	489	27	57.4	350	11	US-11-096-568A-4833	Sequence 4833, Ap
417	27	57.4	326	11	US-11-144-222-62	Sequence 28, Appl	490	27	57.4	351	11	US-11-096-568A-9096	Sequence 9096, Ap
418	27	57.4	326	11	US-11-182-343-28	Sequence 28, Appl	491	27	57.4	351	11	US-11-096-568A-9098	Sequence 9098, Ap
419	27	57.4	326	11	US-11-124-620-2	Sequence 2, Appl	492	27	57.4	352	11	US-11-233-683-3	Sequence 3, Appl
420	27	57.4	326	11	US-11-233-683-2	Sequence 2, Appl	493	27	57.4	355	11	US-11-087-059-19419	Sequence 19419, A
421	27	57.4	326	11	US-11-087-099-2404	Sequence 2404, Ap	494	27	57.4	357	11	US-11-096-568A-31466	Sequence 31466, A
422	27	57.4	327	9	US-10-999-866-38	Sequence 38, Appl	495	27	57.4	373	11	US-11-096-568A-12718	Sequence 12718, A
423	27	57.4	327	9	US-10-988-207-22	Sequence 22, Appl	496	27	57.4	375	11	US-11-096-568A-9095	Sequence 9095, Ap
424	27	57.4	327	9	US-10-493-909-76	Sequence 26, Appl	497	27	57.4	375	11	US-11-188-298-4711	Sequence 4711, Ap
425	27	57.4	327	9	US-10-935-0058-69	Sequence 69, Appl	498	27	57.4	377	9	US-10-999-866-37	Sequence 37, Appl
426	27	57.4	327	10	US-11-091-234A-38	Sequence 38, Appl	499	27	57.4	377	9	US-10-993-009-24	Sequence 24, Appl
427	27	57.4	327	10	US-11-221-902-24	Sequence 24, Appl	500	27	57.4	377	9	US-10-935-0058-68	Sequence 68, Appl
428	27	57.4	327	11	US-11-061-821-38	Sequence 38, Appl	501	27	57.4	377	10	US-11-091-234A-37	Sequence 37, Appl
429	27	57.4	327	11	US-11-102-621-114	Sequence 114, App	502	27	57.4	377	11	US-11-061-821-37	Sequence 37, Appl
430	27	57.4	327	11	US-11-102-621-116	Sequence 116, App	503	27	57.4	377	11	US-11-102-621-113	Sequence 113, App
431	27	57.4	327	11	US-11-102-621-117	Sequence 117, App	504	27	57.4	377	11	US-11-102-621-115	Sequence 115, App
432	27	57.4	327	11	US-11-124-620-4	Sequence 4, Appl	505	27	57.4	377	11	US-11-124-620-3	Sequence 3, Appl
433	27	57.4	327	11	US-11-233-683-4	Sequence 4, Appl	506	27	57.4	377	11	US-11-075-351-12	Sequence 12, Appl
434	27	57.4	328	8	US-10-505-928-191	Sequence 191, App	507	27	57.4	384	11	US-11-075-351-32	Sequence 32, Appl
435	27	57.4	328	9	US-10-988-207-23	Sequence 23, Appl	508	27	57.4	384	11	US-11-172-740-1318	Sequence 1318, Ap
436	27	57.4	328	9	US-10-501-035-368	Sequence 268, App	509	27	57.4	386	10	US-11-302-262-20	Sequence 20, Appl
437	27	57.4	328	11	US-11-169-041-227	Sequence 227, App	510	27	57.4	386	11	US-11-114-922-76	Sequence 76, Appl
438	27	57.4	328	11	US-11-072-173-232	Sequence 232, App	511	27	57.4	386	11	US-11-096-568A-31930	Sequence 31930, A
439	27	57.4	328	11	US-11-188-298-12404	Sequence 12404, A	512	27	57.4	402	11	US-11-024-251-31	Sequence 31, Appl
440	27	57.4	329	11	US-11-122-622-100	Sequence 100, App	513	27	57.4	404	11	US-11-075-351-23	Sequence 23, Appl
441	27	57.4	329	11	US-11-186-422-4	Sequence 4, Appl	514	27	57.4	404	11	US-11-075-351-25	Sequence 25, Appl
442	27	57.4	329	11	US-11-149-309-17	Sequence 17, Appl	515	27	57.4	409	11	US-11-079-463-77554	Sequence 77554, Ap
443	27	57.4	329	11	US-11-155-843-128	Sequence 128, App	516	27	57.4	412	9	US-10-878-556A-149	Sequence 149, App
444	27	57.4	329	11	US-11-155-843-141	Sequence 141, App	517	27	57.4	416	11	US-11-096-568A-12717	Sequence 12717, A
445	27	57.4	330	9	US-10-886-383-6	Sequence 6, Appl	518	27	57.4	417	11	US-11-045-004-169	Sequence 169, App
446	27	57.4	330	9	US-10-493-909-20	Sequence 20, Appl	519	27	57.4	418	11	US-11-096-568A-4832	Sequence 4832, Ap
447	27	57.4	330	9	US-10-982-440-68	Sequence 68, Appl	520	27	57.4	418	11	US-11-096-568A-16380	Sequence 16380, A
448	27	57.4	330	10	US-11-219-563-136	Sequence 136, App	521	27	57.4	418	11	US-11-172-740-743	Sequence 743, App
449	27	57.4	330	10	US-11-221-902-25	Sequence 25, Appl	522	27	57.4	419	11	US-11-172-740-744	Sequence 744, App
450	27	57.4	330	10	US-11-221-902-85	Sequence 85, Appl	523	27	57.4	420	11	US-11-096-568A-31929	Sequence 31929, A
451	27	57.4	330	10	US-11-221-902-86	Sequence 86, Appl	524	27	57.4	422	11	US-11-096-568A-32122	Sequence 32122, A
452	27	57.4	330	10	US-11-221-902-87	Sequence 87, Appl	525	27	57.4	425	11	US-11-096-568A-27574	Sequence 27574, A
453	27	57.4	330	10	US-11-221-902-88	Sequence 88, Appl	526	27	57.4	428	11	US-11-096-568A-20662	Sequence 20662, A
454	27	57.4	330	10	US-11-221-902-89	Sequence 89, Appl	527	27	57.4	428	11	US-11-172-740-742	Sequence 742, App
455	27	57.4	330	11	US-11-022-289-1	Sequence 1, Appl	528	27	57.4	428	11	US-11-045-004-410	Sequence 410, App
456	27	57.4	330	11	US-11-022-289-11	Sequence 11, Appl	529	27	57.4	430	11	US-11-172-740-739	Sequence 739, App
457	27	57.4	330	11	US-11-075-351-1	Sequence 1, Appl	530	27	57.4	430	11	US-11-172-740-745	Sequence 745, App
458	27	57.4	330	11	US-11-165-141-15	Sequence 15, Appl	531	27	57.4	430	11	US-11-188-298-16029	Sequence 16029, A
459	27	57.4	330	11	US-11-102-621-3	Sequence 3, Appl	532	27	57.4	435	11	US-11-096-568A-4831	Sequence 4831, Ap

533	27	57.4	442	9	US-10-487-324A-12	Sequence 12, Appl	606	27	57.4	451	10	US-11-254-182-71	Sequence 71, Appl
534	27	57.4	442	9	US-10-487-324A-21	Sequence 21, Appl	607	27	57.4	451	10	US-11-254-182-72	Sequence 72, Appl
535	27	57.4	442	11	US-11-102-621-124	Sequence 124, App	608	27	57.4	451	11	US-11-120-338-22	Sequence 22, Appl
536	27	57.4	442	11	US-11-102-621-125	Sequence 125, App	609	27	57.4	451	11	US-11-120-338-25	Sequence 25, Appl
537	27	57.4	442	11	US-11-102-621-126	Sequence 126, App	610	27	57.4	451	11	US-11-102-621-142	Sequence 142, App
538	27	57.4	442	11	US-11-102-621-127	Sequence 127, App	611	27	57.4	451	11	US-11-102-621-143	Sequence 143, App
539	27	57.4	442	11	US-11-102-621-128	Sequence 128, App	612	27	57.4	451	11	US-11-102-621-144	Sequence 144, App
540	27	57.4	442	11	US-11-224-623-12	Sequence 12, Appl	613	27	57.4	451	11	US-11-102-621-145	Sequence 145, App
541	27	57.4	442	11	US-11-194-989-11	Sequence 11, Appl	614	27	57.4	451	11	US-11-102-621-146	Sequence 146, App
542	27	57.4	442	11	US-11-195-207-11	Sequence 11, Appl	615	27	57.4	451	11	US-11-128-900-70	Sequence 70, Appl
543	27	57.4	444	11	US-11-173-320-6	Sequence 6, Appl1	616	27	57.4	451	11	US-11-158-505-33	Sequence 33, Appl
544	27	57.4	444	11	US-11-173-969-6	Sequence 6, Appl1	617	27	57.4	451	11	US-11-166-906-1	Sequence 1, Appl1
545	27	57.4	444	11	US-11-004-590-232	Sequence 232, App	618	27	57.4	451	11	US-11-124-620-7	Sequence 7, Appl1
546	27	57.4	444	11	US-11-004-590-233	Sequence 233, App	619	27	57.4	451	11	US-11-124-620-5	Sequence 5, Appl1
547	27	57.4	446	11	US-11-102-621-119	Sequence 119, App	620	27	57.4	451	11	US-11-143-386-22	Sequence 22, Appl
548	27	57.4	446	11	US-11-102-621-120	Sequence 120, App	621	27	57.4	451	11	US-11-143-386-25	Sequence 25, Appl
549	27	57.4	446	11	US-11-102-621-121	Sequence 121, App	622	27	57.4	451	11	US-11-143-386-22	Sequence 22, Appl
550	27	57.4	446	11	US-11-102-621-122	Sequence 122, App	623	27	57.4	451	11	US-11-143-386-25	Sequence 25, Appl
551	27	57.4	446	11	US-11-102-621-123	Sequence 123, App	624	27	57.4	451	11	US-11-187-364-34	Sequence 34, Appl
552	27	57.4	446	11	US-11-102-621-136	Sequence 136, App	625	27	57.4	451	11	US-11-187-364-34	Sequence 34, Appl
553	27	57.4	446	11	US-11-102-621-137	Sequence 137, App	626	27	57.4	451	11	US-11-208-422-22	Sequence 22, Appl
554	27	57.4	446	11	US-11-102-621-138	Sequence 138, App	627	27	57.4	451	11	US-11-208-422-22	Sequence 22, Appl
555	27	57.4	446	11	US-11-102-621-139	Sequence 139, App	628	27	57.4	451	11	US-11-208-422-22	Sequence 22, Appl
556	27	57.4	446	11	US-11-102-621-140	Sequence 140, App	629	27	57.4	452	10	US-11-254-182-65	Sequence 65, Appl
557	27	57.4	447	10	US-11-221-902-4	Sequence 4, Appl1	630	27	57.4	452	10	US-11-254-182-66	Sequence 66, Appl
558	27	57.4	447	10	US-11-221-902-6	Sequence 6, Appl1	631	27	57.4	452	11	US-11-120-338-15	Sequence 15, Appl
559	27	57.4	447	10	US-11-221-902-8	Sequence 8, Appl1	632	27	57.4	452	11	US-11-120-338-15	Sequence 15, Appl
560	27	57.4	447	10	US-11-221-902-10	Sequence 10, Appl	633	27	57.4	452	11	US-11-107-028-32	Sequence 32, Appl
561	27	57.4	447	10	US-11-221-902-12	Sequence 12, Appl	634	27	57.4	452	11	US-11-107-028-33	Sequence 33, Appl
562	27	57.4	447	10	US-11-221-902-84	Sequence 84, Appl	635	27	57.4	452	11	US-11-107-028-43	Sequence 43, Appl
563	27	57.4	447	11	US-11-102-621-130	Sequence 130, App	636	27	57.4	452	11	US-11-107-028-43	Sequence 43, Appl
564	27	57.4	447	11	US-11-102-621-131	Sequence 131, App	637	27	57.4	452	11	US-11-107-028-46	Sequence 46, Appl
565	27	57.4	447	11	US-11-102-621-132	Sequence 132, App	638	27	57.4	452	11	US-11-107-028-46	Sequence 46, Appl
566	27	57.4	447	11	US-11-102-621-133	Sequence 133, App	639	27	57.4	452	11	US-11-106-820-26	Sequence 26, Appl
567	27	57.4	447	11	US-11-004-590-230	Sequence 230, App	640	27	57.4	452	11	US-11-106-820-30	Sequence 30, Appl
568	27	57.4	447	11	US-11-004-590-231	Sequence 231, App	641	27	57.4	452	11	US-11-106-820-45	Sequence 45, Appl
569	27	57.4	447	11	US-11-194-989-36	Sequence 36, Appl	642	27	57.4	452	11	US-11-143-386-17	Sequence 17, Appl
570	27	57.4	447	11	US-11-195-207-36	Sequence 36, Appl	643	27	57.4	452	11	US-11-143-386-15	Sequence 15, Appl
571	27	57.4	447	10	US-11-183-218-56	Sequence 56, Appl	644	27	57.4	452	11	US-11-143-386-17	Sequence 17, Appl
572	27	57.4	448	10	US-11-254-182-16	Sequence 16, Appl	645	27	57.4	452	11	US-11-187-364-14	Sequence 14, Appl
573	27	57.4	448	10	US-11-254-182-16	Sequence 16, Appl	646	27	57.4	452	11	US-11-187-364-14	Sequence 14, Appl
574	27	57.4	448	11	US-11-297-317-4	Sequence 4, Appl1	647	27	57.4	452	11	US-11-143-386-15	Sequence 15, Appl
575	27	57.4	448	11	US-11-158-505-8	Sequence 8, Appl1	648	27	57.4	452	11	US-11-143-386-15	Sequence 15, Appl
576	27	57.4	448	11	US-11-158-505-16	Sequence 16, Appl	649	27	57.4	452	11	US-11-208-422-46	Sequence 46, Appl
577	27	57.4	448	11	US-11-158-505-24	Sequence 24, Appl	650	27	57.4	452	11	US-11-208-422-46	Sequence 46, Appl
578	27	57.4	448	11	US-11-182-908-16	Sequence 16, Appl	651	27	57.4	452	11	US-11-208-422-46	Sequence 46, Appl
579	27	57.4	448	11	US-11-182-908-16	Sequence 16, Appl	652	27	57.4	452	11	US-11-208-422-46	Sequence 46, Appl
580	27	57.4	448	11	US-11-183-205-56	Sequence 56, Appl	653	27	57.4	452	11	US-11-208-422-46	Sequence 46, Appl
581	27	57.4	449	10	US-11-254-182-14	Sequence 24, Appl	654	27	57.4	452	11	US-11-208-422-46	Sequence 46, Appl
582	27	57.4	449	10	US-11-254-182-24	Sequence 24, Appl	655	27	57.4	452	11	US-11-208-422-46	Sequence 46, Appl
583	27	57.4	449	11	US-11-080-587-6	Sequence 6, Appl1	656	27	57.4	452	11	US-11-208-422-46	Sequence 46, Appl
584	27	57.4	449	11	US-11-154-337-15	Sequence 15, Appl	657	27	57.4	452	11	US-11-208-422-46	Sequence 46, Appl
585	27	57.4	449	11	US-11-154-337-17	Sequence 17, Appl	658	27	57.4	452	11	US-11-208-422-46	Sequence 46, Appl
586	27	57.4	449	11	US-11-182-908-14	Sequence 14, Appl	659	27	57.4	453	10	US-11-254-182-44	Sequence 44, Appl
587	27	57.4	449	11	US-11-182-908-24	Sequence 24, Appl	660	27	57.4	453	11	US-11-254-182-44	Sequence 44, Appl
588	27	57.4	449	11	US-11-087-099-1645	Sequence 1645, Ap	661	27	57.4	453	11	US-11-087-099-7865	Sequence 7865, Ap
589	27	57.4	449	11	US-11-188-298-1633	Sequence 1633, Ap	662	27	57.4	453	11	US-11-208-422-23	Sequence 23, Appl
590	27	57.4	450	10	US-11-221-902-2	Sequence 2, Appl	663	27	57.4	453	11	US-11-188-298-7254	Sequence 7254, Ap
591	27	57.4	450	11	US-11-025-712-12	Sequence 12, Appl	664	27	57.4	454	11	US-11-188-298-7254	Sequence 7254, A
592	27	57.4	450	11	US-11-005-726-161	Sequence 161, App	665	27	57.4	454	11	US-11-096-568A-27573	Sequence 4571, Ap
593	27	57.4	450	11	US-11-049-536-701	Sequence 701, App	666	27	57.4	454	11	US-11-096-568A-27573	Sequence 26, Appl
594	27	57.4	450	11	US-11-199-739-701	Sequence 701, App	667	27	57.4	454	11	US-11-177-648-9	Sequence 9, Appl1
595	27	57.4	450	11	US-11-199-739-723	Sequence 723, App	668	27	57.4	454	11	US-11-177-648-26	Sequence 26, Appl
596	27	57.4	450	11	US-11-155-843-176	Sequence 176, App	669	27	57.4	454	11	US-11-177-648-27	Sequence 27, Appl
597	27	57.4	450	11	US-11-045-004-1425	Sequence 1425, Ap	670	27	57.4	454	11	US-11-177-648-30	Sequence 30, Appl
598	27	57.4	451	9	US-10-923-327-7	Sequence 7, Appl1	671	27	57.4	454	11	US-11-177-648-30	Sequence 30, Appl
599	27	57.4	451	9	US-10-923-327-9	Sequence 9, Appl1	672	27	57.4	454	11	US-11-177-648-32	Sequence 32, Appl
600	27	57.4	451	9	US-10-923-327-11	Sequence 11, Appl	673	27	57.4	454	11	US-11-177-648-32	Sequence 32, Appl
601	27	57.4	451	10	US-11-254-182-41	Sequence 41, Appl	674	27	57.4	454	11	US-11-177-648-79	Sequence 79, Appl
602	27	57.4	451	10	US-11-254-182-42	Sequence 42, Appl	675	27	57.4	454	11	US-11-177-648-92	Sequence 92, Appl
603	27	57.4	451	10	US-11-254-182-43	Sequence 43, Appl	676	27	57.4	454	11	US-11-177-648-93	Sequence 93, Appl
604	27	57.4	451	10	US-11-254-182-51	Sequence 51, Appl	677	27	57.4	454	11	US-11-177-648-94	Sequence 94, Appl
605	27	57.4	451	10	US-11-254-182-53	Sequence 53, Appl	678	27	57.4	452	11	US-11-177-648-95	Sequence 95, Appl

679	27	57.4	462	11	US-11-177-648-96	Sequence 96, Appl	752	27	57.4	520	11	US-11-188-298-9248	Sequence 9248, Ap
680	27	57.4	462	11	US-11-177-648-97	Sequence 97, Appl	753	27	57.4	524	11	US-11-041-095-58	Sequence 58, Appl
681	27	57.4	462	11	US-11-177-648-98	Sequence 98, Appl	754	27	57.4	526	11	US-11-041-095-10	Sequence 10, Appl
682	27	57.4	462	11	US-11-238-983-2	Sequence 2, Appl1	755	27	57.4	532	11	US-11-184-380-6	Sequence 6, Appl1
683	27	57.4	462	11	US-11-079-463-8189	Sequence 8189, Ap	756	27	57.4	538	11	US-11-079-463-9734	Sequence 9734, Ap
684	27	57.4	463	11	US-11-128-900-1	Sequence 1, Appl1	757	27	57.4	541	11	US-11-096-568A-12068	Sequence 32068, A
685	27	57.4	463	11	US-11-128-900-4	Sequence 4, Appl1	758	27	57.4	548	11	US-11-022-289-3	Sequence 3, Appl1
686	27	57.4	463	11	US-11-128-900-63	Sequence 63, Appl	759	27	57.4	551	11	US-11-022-289-7	Sequence 7, Appl1
687	27	57.4	463	11	US-11-128-900-64	Sequence 64, Appl	760	27	57.4	551	11	US-11-022-289-8	Sequence 8, Appl1
688	27	57.4	463	11	US-11-128-900-68	Sequence 68, Appl	761	27	57.4	557	11	US-11-022-289-2	Sequence 2, Appl1
689	27	57.4	464	10	US-11-219-563-132	Sequence 132, App	762	27	57.4	557	11	US-11-022-289-4	Sequence 4, Appl1
690	27	57.4	464	11	US-11-128-900-2	Sequence 2, Appl	763	27	57.4	557	11	US-11-022-289-5	Sequence 5, Appl1
691	27	57.4	464	11	US-11-128-900-66	Sequence 66, Appl	764	27	57.4	557	11	US-11-022-289-6	Sequence 6, Appl1
692	27	57.4	464	11	US-11-218-813-132	Sequence 132, App	765	27	57.4	559	11	US-11-096-568A-27572	Sequence 27572, A
693	27	57.4	466	9	US-10-511-989-172	Sequence 172, App	766	27	57.4	560	11	US-11-034-589-6	Sequence 6, Appl1
694	27	57.4	467	10	US-11-254-182-18	Sequence 18, Appl	767	27	57.4	560	11	US-11-194-991-39	Sequence 39, Appl1
695	27	57.4	467	11	US-11-158-505-5	Sequence 5, Appl1	768	27	57.4	562	11	US-11-079-463-5760	Sequence 5760, Ap
696	27	57.4	467	11	US-11-158-505-7	Sequence 7, Appl1	769	27	57.4	564	11	US-11-022-289-10	Sequence 10, Appl
697	27	57.4	467	11	US-11-158-505-13	Sequence 13, Appl	770	27	57.4	573	11	US-11-188-298-1564	Sequence 1564, Ap
698	27	57.4	467	11	US-11-158-505-15	Sequence 15, Appl	771	27	57.4	574	11	US-11-024-959-408	Sequence 408, App
699	27	57.4	467	11	US-11-158-505-21	Sequence 21, Appl	772	27	57.4	579	11	US-11-174-186-41	Sequence 41, Appl
700	27	57.4	467	11	US-11-158-505-23	Sequence 23, Appl	773	27	57.4	588	11	US-11-184-380-5	Sequence 5, Appl1
701	27	57.4	467	11	US-11-158-505-29	Sequence 29, Appl	774	27	57.4	592	11	US-10-016-686-4	Sequence 4, Appl1
702	27	57.4	467	11	US-11-158-505-31	Sequence 31, Appl	775	27	57.4	593	11	US-11-199-821-10	Sequence 10, Appl
703	27	57.4	467	11	US-11-158-505-72	Sequence 72, Appl	776	27	57.4	603	9	US-10-525-907-22	Sequence 22, Appl
704	27	57.4	467	11	US-11-182-908-18	Sequence 18, Appl	777	27	57.4	603	11	US-11-188-298-13167	Sequence 13167, A
705	27	57.4	468	11	US-11-086-289-14	Sequence 14, Appl	778	27	57.4	605	11	US-11-127-877-71	Sequence 71, Appl
706	27	57.4	468	11	US-11-086-289-22	Sequence 22, Appl	779	27	57.4	610	9	US-10-194-487-92	Sequence 92, Appl
707	27	57.4	470	11	US-11-144-248-45	Sequence 45, Appl	780	27	57.4	610	9	US-10-195-883-92	Sequence 92, Appl
708	27	57.4	470	11	US-11-144-248-46	Sequence 46, Appl	781	27	57.4	610	9	US-10-195-888-92	Sequence 92, Appl
709	27	57.4	470	11	US-11-144-248-49	Sequence 49, Appl	782	27	57.4	610	9	US-10-195-889-92	Sequence 92, Appl
710	27	57.4	470	11	US-11-144-222-45	Sequence 45, Appl	783	27	57.4	610	11	US-11-168-298-16248	Sequence 16248, A
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## ALIGNMENTS

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; Sequence 15, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasecchi, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
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; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
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; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1664
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1664

Query Match 80.9%; Score 38; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.18;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 3 NTGLYNL 9
DB 1 NTGLYNL 7

RESULT 3
US-10-530-061-45
; Sequence 45, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT FILING DATE: US/10/530, 061
; PRIOR APPLICATION NUMBER: 2005-04-04
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 45
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-45

Query Match 78.7%; Score 37; DB 9; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LNTNGLY 7
DB 5 LNTNGLY 11
```

```
RESULT 4
US-10-530-061-50
; Sequence 50, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
```

APPLICANT: SETTE, ALESSANDRO  
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
FILE REFERENCE: 2060.03US02/EKS/M-M  
CURRENT APPLICATION NUMBER: US/10/530,061  
CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US03/31308  
PRIOR FILING DATE: 2003-10-03  
PRIOR APPLICATION NUMBER: 60/416,207  
PRIOR FILING DATE: 2002-10-03  
PRIOR APPLICATION NUMBER: 60/417,269  
PRIOR FILING DATE: 2002-10-08  
NUMBER OF SEQ ID NOS: 2503  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 50  
LENGTH: 11  
TYPE: PRT  
ORGANISM: Human papillomavirus  
US-10-530-061-50

Query Match 78.7%; Score 37; DB 9; Length 11;  
Best Local Similarity 100.0%; Pred. No. 0.2;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LTNLTGLY 7  
Db 5 LTNLTGLY 11

RESULT 5  
US-10-530-061-111  
Sequence 111, Application US/10530061  
Publication No. US20060079453A1  
GENERAL INFORMATION:  
APPLICANT: SIDNEY, JOHN  
APPLICANT: SOUTHWOOD, SCOTT  
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
FILE REFERENCE: 2060.03US02/EKS/M-M  
CURRENT APPLICATION NUMBER: US/10/530,061  
CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US03/31308  
PRIOR FILING DATE: 2003-10-03  
PRIOR APPLICATION NUMBER: 60/416,207  
PRIOR FILING DATE: 2002-10-03  
PRIOR APPLICATION NUMBER: 60/417,269  
PRIOR FILING DATE: 2002-10-08  
NUMBER OF SEQ ID NOS: 2503  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 111  
LENGTH: 11  
TYPE: PRT  
ORGANISM: Human papillomavirus  
US-10-530-061-111

Query Match 78.7%; Score 37; DB 9; Length 11;  
Best Local Similarity 100.0%; Pred. No. 0.2;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LTNLTGLY 7  
Db 5 LTNLTGLY 11

RESULT 6  
US-10-530-253-19  
Sequence 19, Application US/10530253  
Publication No. US20060014926A1  
GENERAL INFORMATION:  
APPLICANT: Cassetti, Maria C.  
APPLICANT: Smith, Larry  
APPLICANT: Jeffrey K. Pullen  
APPLICANT: Susan P. McElhinney  
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS

FILE REFERENCE: 00630/100M137-US2  
CURRENT APPLICATION NUMBER: US/10/530,253  
CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US2003/031726  
PRIOR FILING DATE: 2003-10-02  
PRIOR APPLICATION NUMBER: US 60/415,929  
PRIOR FILING DATE: 2002-10-03  
NUMBER OF SEQ ID NOS: 65  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 19  
LENGTH: 158  
TYPE: PRT  
ORGANISM: Human papillomavirus type 39  
US-10-530-253-19

Query Match 78.7%; Score 37; DB 9; Length 158;  
Best Local Similarity 77.8%; Pred. No. 3.5;  
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTNLTGLYNL 9  
Db 93 ITNLTGLYNL 101

RESULT 7  
US-10-530-253-20  
Sequence 20, Application US/10530253  
Publication No. US20060014926A1  
GENERAL INFORMATION:  
APPLICANT: Cassetti, Maria C.  
APPLICANT: Smith, Larry  
APPLICANT: Jeffrey K. Pullen  
APPLICANT: Susan P. McElhinney  
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
FILE REFERENCE: 00630/100M137-US2  
CURRENT APPLICATION NUMBER: US/10/530,253  
CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US2003/031726  
PRIOR FILING DATE: 2003-10-02  
PRIOR APPLICATION NUMBER: US 60/415,929  
PRIOR FILING DATE: 2002-10-03  
NUMBER OF SEQ ID NOS: 65  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 20  
LENGTH: 158  
TYPE: PRT  
ORGANISM: Human papillomavirus type 45  
US-10-530-253-20

Query Match 78.7%; Score 37; DB 9; Length 158;  
Best Local Similarity 77.8%; Pred. No. 3.5;  
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTNLTGLYNL 9  
Db 93 ITNLTGLYNL 101

RESULT 8  
US-10-530-253-26  
Sequence 26, Application US/10530253  
Publication No. US20060014926A1  
GENERAL INFORMATION:  
APPLICANT: Cassetti, Maria C.  
APPLICANT: Smith, Larry  
APPLICANT: Jeffrey K. Pullen  
APPLICANT: Susan P. McElhinney  
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
FILE REFERENCE: 00630/100M137-US2  
CURRENT APPLICATION NUMBER: US/10/530,253  
CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US2003/031726  
PRIOR FILING DATE: 2003-10-02

PRIOR APPLICATION NUMBER: US 60/415,929  
PRIOR FILING DATE: 2002-10-03  
NUMBER OF SEQ ID NOS: 65  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 26  
LENGTH: 158  
TYPE: PRT  
ORGANISM: Human papillomavirus type 68  
US-10-530-253-26

Query Match 78.7%; Score 37; DB 9; Length 158;  
Best Local Similarity 77.8%; Pred. No. 3.5;  
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTNLTGLYNL 9  
Db 93 ITNTKLYNL 101

RESULT 9  
US-11-052-554A-134  
Sequence 134, Application US/11052554A  
Publication No. US20050288866A1  
GENERAL INFORMATION:  
APPLICANT: Sachdeva, et al.  
TITLE OF INVENTION: COMPUTATIONAL METHOD FOR IDENTIFYING ADHESIN AND ADHESIN-LIKE  
FILE REFERENCE: 30853/40359A  
CURRENT APPLICATION NUMBER: US/11/052,554A  
CURRENT FILING DATE: 2005-02-07  
PRIOR APPLICATION NUMBER: US 60/589,227  
PRIOR FILING DATE: 2004-07-20  
PRIOR APPLICATION NUMBER: IN 173/DEL/2004  
PRIOR FILING DATE: 2004-02-06  
NUMBER OF SEQ ID NOS: 763  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 134  
LENGTH: 2204  
TYPE: PRT  
ORGANISM: Mycobacterium tuberculosis H37Rv  
US-11-052-554A-134

Query Match 74.5%; Score 35; DB 11; Length 2204;  
Best Local Similarity 85.7%; Pred. No. 1.5e+02;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 TTNLTGLYN 8  
Db 242 TTNLTGLFN 248

RESULT 10  
US-11-052-554A-141  
Sequence 141, Application US/11052554A  
Publication No. US20050288866A1  
GENERAL INFORMATION:  
APPLICANT: Sachdeva, et al.  
TITLE OF INVENTION: COMPUTATIONAL METHOD FOR IDENTIFYING ADHESIN AND ADHESIN-LIKE  
FILE REFERENCE: 30853/40359A  
CURRENT APPLICATION NUMBER: US/11/052,554A  
CURRENT FILING DATE: 2005-02-07  
PRIOR APPLICATION NUMBER: US 60/589,227  
PRIOR FILING DATE: 2004-07-20  
PRIOR APPLICATION NUMBER: IN 173/DEL/2004  
PRIOR FILING DATE: 2004-02-06  
NUMBER OF SEQ ID NOS: 763  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 141  
LENGTH: 3716  
TYPE: PRT  
ORGANISM: Mycobacterium tuberculosis H37Rv  
US-11-052-554A-141

Query Match 74.5%; Score 35; DB 11; Length 3716;  
Best Local Similarity 85.7%; Pred. No. 2.5e+02;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 TTNLTGLYN 8  
Db 2173 TTNLTGLFN 2179

RESULT 11  
US-11-072-512-3590  
Sequence 3590, Application US/11072512  
Publication No. US20060029945A1  
GENERAL INFORMATION:  
APPLICANT: ISOGAI, TAKAO  
APPLICANT: SUGIYAMA, TOMOYASU  
APPLICANT: OTSUKI, TETSUJI  
APPLICANT: MAKAMATSU, AI  
APPLICANT: SATO, HIROYUKI  
APPLICANT: ISHII, SHIZUKO  
APPLICANT: YAMAMOTO, JUN-ICHI  
APPLICANT: ISONO, YUUKO  
APPLICANT: HIO, YURI  
APPLICANT: OTSUKA, KAORU  
APPLICANT: NAGAI, KEIICHI  
APPLICANT: IRIE, RYOTARO  
APPLICANT: TAMECHIKA, ICHIRO  
APPLICANT: SEKI, NAOHICO  
APPLICANT: YOSHIKAWA, TSUTOMU  
APPLICANT: OTSUKA, MOTOKYUKI  
APPLICANT: NAGAHARI, KENJI  
APPLICANT: MASUHO, YASUHIKO  
TITLE OF INVENTION: Novel full length cDNA  
FILE REFERENCE: 084335-0191  
CURRENT APPLICATION NUMBER: US/11/072,512  
CURRENT FILING DATE: 2005-03-07  
PRIOR APPLICATION NUMBER: US 60/350,978  
PRIOR FILING DATE: 2002-01-25  
PRIOR APPLICATION NUMBER: JP 2001-379298  
PRIOR FILING DATE: 2001-11-05  
NUMBER OF SEQ ID NOS: 4096  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 3590  
LENGTH: 258  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-11-072-512-3590

Query Match 72.3%; Score 34; DB 11; Length 258;  
Best Local Similarity 85.7%; Pred. No. 23;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 NTGGLYNL 9  
Db 57 NTGGLFN 63

RESULT 12  
US-11-087-099-731  
Sequence 731, Application US/11087099  
Publication No. US20060041961A1  
GENERAL INFORMATION:  
APPLICANT: Abad, Mark S. et al.  
TITLE OF INVENTION: Genes and Uses for Plant Improvement  
FILE REFERENCE: 38-21(53450)B EP  
CURRENT APPLICATION NUMBER: US/11/087,099  
CURRENT FILING DATE: 2005-03-22  
NUMBER OF SEQ ID NOS: 12464  
SEQ ID NO 731  
LENGTH: 326  
TYPE: PRT  
ORGANISM: Streptomyces coelicolor A3(2)  
US-11-087-099-731

US-11-087-099-731

Query Match  
Best Local Similarity 72.3%; Score 34; DB 11; Length 326;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LNTGTYNL 9  
Db 179 LVDTGVYNL 187

RESULT 13

US-10-878-556A-132  
; Sequence 132, Application US/10878556A  
; Publication No. US20050266399A1  
; GENERAL INFORMATION:  
; APPLICANT: Hoffmann La-Roche, Inc.  
; TITLE OF INVENTION: HCV regulated protein expression  
; FILE REFERENCE: 21/62  
; CURRENT APPLICATION NUMBER: US/10/878,556A  
; CURRENT FILING DATE: 2004-06-28  
; NUMBER OF SEQ ID NOS: 199  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 132  
; LENGTH: 688  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; PUBLICATION INFORMATION:  
; DATABASE ACCESSION NUMBER: sw\_hum/mepd\_human  
; DATABASE ENTRY DATE: 1996-10-01  
US-10-878-556A-132

Query Match  
Best Local Similarity 72.3%; Score 34; DB 9; Length 688;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 3 NTGTYNL 9  
Db 545 NTGTYNL 551

RESULT 14

US-11-079-463-7664  
; Sequence 7664, Application US/11079463  
; Publication No. US20060073161A1  
; GENERAL INFORMATION:  
; APPLICANT: Gary L. Breton  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FR  
; FILE REFERENCE: PATH00-03DIV2  
; CURRENT APPLICATION NUMBER: US/11/079,463  
; CURRENT FILING DATE: 2005-03-14  
; PRIOR APPLICATION NUMBER: US 60/128,705  
; PRIOR FILING DATE: 1999-04-09  
; PRIOR APPLICATION NUMBER: US 09/540,209  
; PRIOR FILING DATE: 2000-04-04  
; NUMBER OF SEQ ID NOS: 10444  
; SEQ ID NO 7664  
; LENGTH: 389  
; TYPE: PRT  
; ORGANISM: B. fragilis  
US-11-079-463-7664

Query Match  
Best Local Similarity 70.2%; Score 33; DB 11; Length 389;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 TMTGLYN 8  
Db 264 TMTGLYN 270

RESULT 15

US-11-188-298-1813

US-11-188-298-1813  
; Sequence 1813, Application US/11188298  
; Publication No. US20060075522A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
; FILE REFERENCE: 38-21(53452)B  
; CURRENT APPLICATION NUMBER: US/11/188,298  
; CURRENT FILING DATE: 2005-07-22  
; PRIOR APPLICATION NUMBER: 60/592,978  
; PRIOR FILING DATE: 2004-07-31  
; NUMBER OF SEQ ID NOS: 22569  
; SEQ ID NO 1813  
; LENGTH: 407  
; TYPE: PRT  
; ORGANISM: Pyrobaculum aerophilum str. IM2  
US-11-188-298-1813

Query Match  
Best Local Similarity 70.2%; Score 33; DB 11; Length 407;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 LNTGTYNL 9  
Db 181 LVNTGTYNL 189

RESULT 16

US-11-127-817-16  
; Sequence 16, Application US/11127817  
; Publication No. US20050287519A1  
; GENERAL INFORMATION:  
; APPLICANT: Merchlers, Pascal G.  
; APPLICANT: Hoffmann, Marcel  
; APPLICANT: Spitzels, Koenraad F. F.  
; APPLICANT: Laenen, Wendy  
; TITLE OF INVENTION: Methods, Compositions And Compound Assays For Inhibiting  
; FILE REFERENCE: P27,800-D USA  
; CURRENT APPLICATION NUMBER: US/11/127,817  
; CURRENT FILING DATE: 2005-05-12  
; PRIOR APPLICATION NUMBER: 60/570,352  
; PRIOR FILING DATE: 2004-05-12  
; PRIOR APPLICATION NUMBER: 60/603,948  
; PRIOR FILING DATE: 2004-08-24  
; NUMBER OF SEQ ID NOS: 534  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 16  
; LENGTH: 567  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-127-817-16

Query Match  
Best Local Similarity 70.2%; Score 33; DB 11; Length 567;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 LNTGTYNL 9  
Db 354 VTNKGTYNL 362

RESULT 17

US-11-129-741-2939  
; Sequence 2939, Application US/11129741  
; Publication No. US20060034853A1  
; GENERAL INFORMATION:  
; APPLICANT: YUEN, KWOK YUNG  
; APPLICANT: WOO, CHIU YAT PATRICK  
; APPLICANT: LAU, KAR PUI SUSANNA  
; APPLICANT: CHAN, KWOK HUNG  
; APPLICANT: POON, LIT MAN  
; APPLICANT: PEIRIS, JOSEPH S.M.

```
APPLICANT: GUAN, YI
TITLE OF INVENTION: A NOVEL HUMAN VIRUS CAUSING RESPIRATORY TRACT
FILE REFERENCE: V0690.0044
CURRENT FILING DATE: 2005-05-16
PRIOR APPLICATION NUMBER: 10/895,064
PRIOR FILING DATE: 2004-07-21
NUMBER OF SEQ ID NOS: 4257
SOFTWARE: PatentIn version 3.3
SEQ ID NO 2939
LENGTH: 1356
TYPE: PRT
ORGANISM: Homo sapiens
US-11-129-741-2939
```

```
Query Match      70.2%; Score 33; DB 11; Length 1356;
Best Local Similarity 66.7%; Pred. No. 2.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 LTNGLYNL 9
Db 298 LPNTGYDL 306
```

```
RESULT 18
US-11-129-741-2941
Sequence 2941, Application US/11129741
Publication No. US20060034853A1
GENERAL INFORMATION:
APPLICANT: YUEN, KWOK YUNG
APPLICANT: WOO, CHIU YAT PATRICK
APPLICANT: LAU, KAR PUI SUSANNA
APPLICANT: CHAN, KWOK HUNG
APPLICANT: POON, LIT MAN
APPLICANT: PEIRIS, JOSEPH S.M.
APPLICANT: GUAN, YI
TITLE OF INVENTION: A NOVEL HUMAN VIRUS CAUSING RESPIRATORY TRACT
FILE REFERENCE: V0690.0044
CURRENT FILING DATE: 2005-05-16
PRIOR APPLICATION NUMBER: 10/895,064
PRIOR FILING DATE: 2004-07-21
NUMBER OF SEQ ID NOS: 4257
SOFTWARE: PatentIn version 3.3
SEQ ID NO 2941
LENGTH: 1356
TYPE: PRT
ORGANISM: Corononnavirus-HKU1
US-11-129-741-2941
```

```
Query Match      70.2%; Score 33; DB 11; Length 1356;
Best Local Similarity 66.7%; Pred. No. 2.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 LTNGLYNL 9
Db 298 LPNTGYDL 306
```

```
RESULT 19
US-11-129-741-2943
Sequence 2943, Application US/11129741
Publication No. US20060034853A1
GENERAL INFORMATION:
APPLICANT: YUEN, KWOK YUNG
APPLICANT: WOO, CHIU YAT PATRICK
APPLICANT: LAU, KAR PUI SUSANNA
APPLICANT: CHAN, KWOK HUNG
APPLICANT: POON, LIT MAN
APPLICANT: PEIRIS, JOSEPH S.M.
APPLICANT: GUAN, YI
```

```
TITLE OF INVENTION: A NOVEL HUMAN VIRUS CAUSING RESPIRATORY TRACT
FILE REFERENCE: V0690.0044
CURRENT FILING DATE: 2005-05-16
PRIOR APPLICATION NUMBER: 10/895,064
PRIOR FILING DATE: 2004-07-21
NUMBER OF SEQ ID NOS: 4257
SOFTWARE: PatentIn version 3.3
SEQ ID NO 2943
LENGTH: 1356
TYPE: PRT
ORGANISM: Corononnavirus-HKU1
US-11-129-741-2943
```

```
Query Match      70.2%; Score 33; DB 11; Length 1356;
Best Local Similarity 66.7%; Pred. No. 2.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 LTNGLYNL 9
Db 298 LPNTGYDL 306
```

```
RESULT 20
US-11-129-741-2945
Sequence 2945, Application US/11129741
Publication No. US20060034853A1
GENERAL INFORMATION:
APPLICANT: YUEN, KWOK YUNG
APPLICANT: WOO, CHIU YAT PATRICK
APPLICANT: LAU, KAR PUI SUSANNA
APPLICANT: CHAN, KWOK HUNG
APPLICANT: POON, LIT MAN
APPLICANT: PEIRIS, JOSEPH S.M.
APPLICANT: GUAN, YI
TITLE OF INVENTION: A NOVEL HUMAN VIRUS CAUSING RESPIRATORY TRACT
FILE REFERENCE: V0690.0044
CURRENT FILING DATE: 2005-05-16
PRIOR APPLICATION NUMBER: 10/895,064
PRIOR FILING DATE: 2004-07-21
NUMBER OF SEQ ID NOS: 4257
SOFTWARE: PatentIn version 3.3
SEQ ID NO 2945
LENGTH: 1356
TYPE: PRT
ORGANISM: Corononnavirus-HKU1
US-11-129-741-2945
```

```
Query Match      70.2%; Score 33; DB 11; Length 1356;
Best Local Similarity 66.7%; Pred. No. 2.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 LTNGLYNL 9
Db 298 LPNTGYDL 306
```

```
RESULT 21
US-11-129-741-2949
Sequence 2949, Application US/11129741
Publication No. US20060034853A1
GENERAL INFORMATION:
APPLICANT: YUEN, KWOK YUNG
APPLICANT: WOO, CHIU YAT PATRICK
APPLICANT: LAU, KAR PUI SUSANNA
APPLICANT: CHAN, KWOK HUNG
APPLICANT: POON, LIT MAN
APPLICANT: PEIRIS, JOSEPH S.M.
APPLICANT: GUAN, YI
TITLE OF INVENTION: A NOVEL HUMAN VIRUS CAUSING RESPIRATORY TRACT
```

```
;; TITLE OF INVENTION: INFECTION AND USES THEREOF
;; FILE REFERENCE: V0690.0044
;; CURRENT APPLICATION NUMBER: US/11/129,741
;; CURRENT FILING DATE: 2005-05-16
;; PRIOR APPLICATION NUMBER: 10/895,064
;; PRIOR FILING DATE: 2004-07-21
;; NUMBER OF SEQ ID NOS: 4257
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 2949
;; LENGTH: 1356
;; TYPE: PRT
;; ORGANISM: Corononavirrus-HKU1
US-11-129-741-2949
```

```
Query Match          70.2%; Score 33; DB 11; Length 1356;
Best Local Similarity 66.7%; Pred. No. 2.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 LNTGTYNL 9
    |||:|:|
Db 298 LPNTGYDL 306
```

```
RESULT 22
US-11-129-741-2951
; Sequence 2951, Application US/11129741
; Publication No. US20060034853A1
; GENERAL INFORMATION:
; APPLICANT: YUEN, KWOK YUNG
; APPLICANT: WOO, CHIU YAT PATRICK
; APPLICANT: LAU, KAR PUI SUSANNA
; APPLICANT: CHAN, KWOK HUNG
; APPLICANT: POON, LIT MAN
; APPLICANT: PEIRIS, JOSEPH S. M.
; APPLICANT: GUAN, YI
; TITLE OF INVENTION: A NOVEL HUMAN VIRUS CAUSING RESPIRATORY TRACT
; FILE REFERENCE: V0690.0044
; CURRENT APPLICATION NUMBER: US/11/129,741
; CURRENT FILING DATE: 2005-05-16
; PRIOR APPLICATION NUMBER: 10/895,064
; PRIOR FILING DATE: 2004-07-21
; NUMBER OF SEQ ID NOS: 4257
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2951
; LENGTH: 1356
; TYPE: PRT
; ORGANISM: Corononavirrus-HKU1
US-11-129-741-2951
```

```
Query Match          70.2%; Score 33; DB 11; Length 1356;
Best Local Similarity 66.7%; Pred. No. 2.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 LNTGTYNL 9
    |||:|:|
Db 298 LPNTGYDL 306
```

```
RESULT 23
US-11-129-741-4245
; Sequence 4245, Application US/11129741
; Publication No. US20060034853A1
; GENERAL INFORMATION:
; APPLICANT: YUEN, KWOK YUNG
; APPLICANT: WOO, CHIU YAT PATRICK
; APPLICANT: LAU, KAR PUI SUSANNA
; APPLICANT: CHAN, KWOK HUNG
; APPLICANT: POON, LIT MAN
; APPLICANT: PEIRIS, JOSEPH S. M.
; APPLICANT: GUAN, YI
; TITLE OF INVENTION: A NOVEL HUMAN VIRUS CAUSING RESPIRATORY TRACT
; FILE REFERENCE: V0690.0044
; CURRENT APPLICATION NUMBER: US/11/129,741
; CURRENT FILING DATE: 2005-05-16
```

```
;; FILE REFERENCE: V0690.0044
;; CURRENT APPLICATION NUMBER: US/11/129,741
;; CURRENT FILING DATE: 2005-05-16
;; PRIOR APPLICATION NUMBER: 10/895,064
;; PRIOR FILING DATE: 2004-07-21
;; NUMBER OF SEQ ID NOS: 4257
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 4245
;; LENGTH: 1356
;; TYPE: PRT
;; ORGANISM: Corononavirrus-HKU1
US-11-129-741-4245
```

```
Query Match          70.2%; Score 33; DB 11; Length 1356;
Best Local Similarity 66.7%; Pred. No. 2.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 LNTGTYNL 9
    |||:|:|
Db 298 LPNTGYDL 306
```

```
RESULT 24
US-10-895-064-420
; Sequence 420, Application US/10895064
; Publication No. US20060018923A1
; GENERAL INFORMATION:
; APPLICANT: PEIRIS, JOSEPH S. M.
; APPLICANT: YUEN, KWOK YUNG
; APPLICANT: POON, LIT MAN
; APPLICANT: GUAN, YI
; APPLICANT: CHAN, KWOK HUNG
; APPLICANT: NICHOLS, JOHN M.
; APPLICANT: LEUNG, FREDERICK C.
; TITLE OF INVENTION: A NOVEL HUMAN VIRUS CAUSING RESPIRATORY TRACT INFECTION AND USES
; FILE REFERENCE: V0690.0031
; CURRENT APPLICATION NUMBER: US/10/895,064
; CURRENT FILING DATE: 2004-07-21
; NUMBER OF SEQ ID NOS: 2918
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 420
; LENGTH: 1362
; TYPE: PRT
; ORGANISM: Corononavirrus-HKU1
US-10-895-064-420
```

```
Query Match          70.2%; Score 33; DB 9; Length 1362;
Best Local Similarity 66.7%; Pred. No. 2.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 LNTGTYNL 9
    |||:|:|
Db 304 LPNTGYDL 312
```

```
RESULT 25
US-11-129-741-420
; Sequence 420, Application US/11129741
; Publication No. US20060034853A1
; GENERAL INFORMATION:
; APPLICANT: YUEN, KWOK YUNG
; APPLICANT: WOO, CHIU YAT PATRICK
; APPLICANT: LAU, KAR PUI SUSANNA
; APPLICANT: CHAN, KWOK HUNG
; APPLICANT: POON, LIT MAN
; APPLICANT: PEIRIS, JOSEPH S. M.
; APPLICANT: GUAN, YI
; TITLE OF INVENTION: A NOVEL HUMAN VIRUS CAUSING RESPIRATORY TRACT
; FILE REFERENCE: V0690.0044
; CURRENT APPLICATION NUMBER: US/11/129,741
; CURRENT FILING DATE: 2005-05-16
```

PRIOR APPLICATION NUMBER: 10/895,064  
PRIOR FILING DATE: 2004-07-21  
NUMBER OF SEQ ID NOS: 4257  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 420  
LENGTH: 1362  
TYPE: PRT  
ORGANISM: Corononavirus-HKU1  
US-11-129-741-420

Query Match 70.2%; Score 33; DB 11; Length 1362;  
Best Local Similarity 66.7%; Pred. No. 2.2e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LNTGLYNL 9  
Db 304 LPNTGYVDL 312

RESULT 26  
US-11-052-554A-133  
Sequence 133, Application US/11052554A  
Publication No. US20050288866A1  
GENERAL INFORMATION:  
APPLICANT: Sachdeva, et al.  
TITLE OF INVENTION: COMPUTATIONAL METHOD FOR IDENTIFYING ADHESIN AND ADHESIN-LIKE  
FILE REFERENCE: 30853/40359A  
CURRENT APPLICATION NUMBER: US/11/052,554A  
CURRENT FILING DATE: 2005-02-07  
PRIOR APPLICATION NUMBER: US 60/589,227  
PRIOR FILING DATE: 2004-07-20  
PRIOR APPLICATION NUMBER: IN 173/DBL/2004  
PRIOR FILING DATE: 2004-02-06  
NUMBER OF SEQ ID NOS: 763  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 133  
LENGTH: 3300  
TYPE: PRT  
ORGANISM: Mycobacterium tuberculosis H37RV  
US-11-052-554A-133

Query Match 70.2%; Score 33; DB 11; Length 3300;  
Best Local Similarity 65.7%; Pred. No. 5.6e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 TMTGLYN 8  
Db 772 TMTGSYN 778

RESULT 27  
US-10-963-439-15  
Sequence 15, Application US/10963439  
Publication No. US20060079444A1  
GENERAL INFORMATION:  
APPLICANT: Ron, Dina  
TITLE OF INVENTION: HUMAN SEF ISOFORMS AND METHODS OF USING SAME FOR CANCER GENE  
FILE REFERENCE: 28385  
CURRENT APPLICATION NUMBER: US/10/963,439  
CURRENT FILING DATE: 2004-10-11  
NUMBER OF SEQ ID NOS: 22  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 15  
LENGTH: 77  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-963-439-15

Query Match 68.1%; Score 32; DB 9; Length 77;  
Best Local Similarity 71.4%; Pred. No. 16;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 NTGLYNL 9  
Db 57 NSGLYNI 63

RESULT 28  
US-10-963-439-14  
Sequence 14, Application US/10963439  
Publication No. US20060079444A1  
GENERAL INFORMATION:  
APPLICANT: Ron, Dina  
TITLE OF INVENTION: HUMAN SEF ISOFORMS AND METHODS OF USING SAME FOR CANCER GENE  
FILE REFERENCE: 28385  
CURRENT APPLICATION NUMBER: US/10/963,439  
CURRENT FILING DATE: 2004-10-11  
NUMBER OF SEQ ID NOS: 22  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 14  
LENGTH: 115  
TYPE: PRT  
ORGANISM: Artificial sequence  
FEATURE:  
OTHER INFORMATION: Partial predicted amino acid sequence of hsef-d  
US-10-963-439-14

Query Match 68.1%; Score 32; DB 9; Length 115;  
Best Local Similarity 71.4%; Pred. No. 25;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 NTGLYNL 9  
Db 78 NSGLYNI 84

RESULT 29  
US-11-045-004-2620  
Sequence 2620, Application US/11045004  
Publication No. US20060078901A1  
GENERAL INFORMATION:  
APPLICANT: BUCHRISSER, CARMEN  
APPLICANT: FRANGUL, LIONEL  
APPLICANT: COVE, ELISABETH  
APPLICANT: RUSNIOK, CHRISTOPHE  
APPLICANT: FSIHI, HAÏDA  
APPLICANT: DEHOUD, PIERRE  
APPLICANT: DUSURGET, OLIVIER  
APPLICANT: CHETOUANI, FARID  
APPLICANT: MEDJARI, HAPED  
APPLICANT: GLASER, PHILIPPE  
APPLICANT: KUNST, FRANK  
APPLICANT: COSSART, PASCALE  
APPLICANT: DANIELS, JUSTIN  
APPLICANT: GOEBEL, WERNER  
APPLICANT: KREFT, JURGEN  
APPLICANT: KUHN, MICHAEL  
APPLICANT: NG, EVA  
APPLICANT: VAZQUEZ-BOLAND, ANTONIO  
APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO  
APPLICANT: GARRIDO-GARCIA, PATRICIA  
APPLICANT: TIERREZ-MARTINEZ, ALBERTO  
APPLICANT: AMEND, ALEXANDRA  
APPLICANT: CHAKRABORTY, TRINAD  
APPLICANT: DOMANN, EUGEN  
APPLICANT: HAIN, THORSTEN  
APPLICANT: BERGE, PATRICK  
APPLICANT: CHARBIT, ALAIN  
APPLICANT: DURANT, LIONEL  
APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO  
APPLICANT: BAQUERO, FERNANDO  
APPLICANT: GARCIA DEL PORTILLO, FRANCISCO  
APPLICANT: GOMEZ-LOPEZ, NURIA



APPLICANT: MADUENIO, ENCARN  
APPLICANT: PABLOS, BETRIZ DE  
APPLICANT: WEHLAND, JURGEN  
APPLICANT: KARST, UWE  
APPLICANT: ENTIAN, KARL-DIETER  
APPLICANT: HAUF, JORG  
APPLICANT: ROSE, MATTHIAS  
APPLICANT: VOSSE, HAMUT  
TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES  
FILE REFERENCE: 05394.0018-02  
CURRENT APPLICATION NUMBER: US/11/045,004  
PRIOR FILING DATE: 2005-01-28  
PRIOR APPLICATION NUMBER: 10/637,657  
PRIOR FILING DATE: 2003-08-11  
PRIOR APPLICATION NUMBER: 10/257,023  
PRIOR FILING DATE: 2002-10-08  
PRIOR APPLICATION NUMBER: PCT/FR01/01118  
PRIOR FILING DATE: 2001-04-11  
PRIOR APPLICATION NUMBER: FR 00/04,629  
PRIOR FILING DATE: 2000-04-11  
NUMBER OF SEQ ID NOS: 2854  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 2620  
LENGTH: 294  
TYPE: PRT  
ORGANISM: Listeria monocytogenes  
US-11-045-004-2620

Query Match 68.1%; Score 32; DB 11; Length 294;  
Best Local Similarity 100.0%; Pred. No. 67;  
Matches 6; Conservative 0; Indels 0; Gaps 0;

QY 4 TGLYNL 9  
DB 224 TGLYNL 229

RESULT 30  
US-11-188-298-16697  
Sequence 16697, Application US/11188298  
Publication No. US20060075522A1  
GENERAL INFORMATION:  
APPLICANT: Abad, Mark S. et al.  
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
FILE REFERENCE: 38-21(53452)B  
CURRENT APPLICATION NUMBER: US/11/188,298  
PRIOR FILING DATE: 2005-07-22  
PRIOR APPLICATION NUMBER: 60/592,978  
PRIOR FILING DATE: 2004-07-31  
NUMBER OF SEQ ID NOS: 22569  
SEQ ID NO 16697  
LENGTH: 304  
TYPE: PRT  
ORGANISM: Burkholderia fungorum  
US-11-188-298-16697

Query Match 68.1%; Score 32; DB 11; Length 304;  
Best Local Similarity 75.0%; Pred. No. 69;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 TMTGLYNL 9  
DB 296 TMTGLYNL 303

RESULT 31  
US-11-079-463-7583  
Sequence 7583, Application US/11079463  
Publication No. US20060073161A1  
GENERAL INFORMATION:  
APPLICANT: Gary L. Breton  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES PRO  
TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: PATH00-03DIV2  
CURRENT APPLICATION NUMBER: US/11/079,463  
CURRENT FILING DATE: 2005-03-14  
PRIOR APPLICATION NUMBER: US 60/128,705  
PRIOR FILING DATE: 1999-04-09  
PRIOR APPLICATION NUMBER: US 09/540,209  
PRIOR FILING DATE: 2000-04-04  
NUMBER OF SEQ ID NOS: 10444  
SEQ ID NO 7583  
LENGTH: 396  
TYPE: PRT  
ORGANISM: B.fragilis  
US-11-079-463-7583

Query Match 68.1%; Score 32; DB 11; Length 396;  
Best Local Similarity 66.7%; Pred. No. 92;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 LMTGLYNL 9  
DB 218 LMTGLYNL 226

RESULT 32  
US-11-052-554A-168  
Sequence 168, Application US/11052554A  
Publication No. US20050288866A1  
GENERAL INFORMATION:  
APPLICANT: Sachdeva, et al.  
TITLE OF INVENTION: COMPUTATIONAL METHOD FOR IDENTIFYING ADHESIN AND ADHESIN-LIKE  
TITLE OF INVENTION: PROTEINS OF THERAPEUTIC POTENTIAL  
FILE REFERENCE: 30853/40359A  
CURRENT APPLICATION NUMBER: US/11/052,554A  
PRIOR FILING DATE: 2005-02-07  
PRIOR APPLICATION NUMBER: US 60/589,227  
PRIOR FILING DATE: 2004-07-20  
PRIOR APPLICATION NUMBER: IN 173/DEL/2004  
PRIOR FILING DATE: 2004-02-06  
NUMBER OF SEQ ID NOS: 763  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 168  
LENGTH: 552  
TYPE: PRT  
ORGANISM: Mycobacterium tuberculosis H37Rv  
US-11-052-554A-168

Query Match 68.1%; Score 32; DB 11; Length 552;  
Best Local Similarity 71.4%; Pred. No. 1.3e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 MTGLYNL 9  
DB 531 MTGLYNL 537

RESULT 33  
US-10-963-439-6  
Sequence 6, Application US/10963439  
Publication No. US20060079444A1  
GENERAL INFORMATION:  
APPLICANT: Ron, Dina  
TITLE OF INVENTION: HUMAN SEF ISOFORMS AND METHODS OF USING SAME FOR CANCER GENE  
FILE REFERENCE: 28385  
CURRENT APPLICATION NUMBER: US/10/963,439  
PRIOR FILING DATE: 2004-10-11  
NUMBER OF SEQ ID NOS: 22  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 6  
LENGTH: 707  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-963-439-6

Query Match 68.1%; Score 32; DB 9; Length 707;  
Best Local Similarity 71.4%; Pred. No. 1.7e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 NTGLYNL 9  
|:|||||:  
Db 18 NSGLYNI 24

## RESULT 34

US-11-311-555-18  
; Sequence 18, Application US/11311555  
; Publication No. US2006008916A1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Chen, Jian  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Li, Hanzhong  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Vanlookeren, Menno  
; APPLICANT: Vandlen, Richard  
; APPLICANT: Watanabe, Colin  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William  
; APPLICANT: Yansura, Daniel  
; TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF  
; FILE REFERENCE: P1381R1C1P1 (US)  
; CURRENT FILING DATE: 2005-12-20  
; PRIOR APPLICATION NUMBER: US/09/747,259  
; PRIOR FILING DATE: 2000-12-20  
; PRIOR APPLICATION NUMBER: US 09/311,832  
; PRIOR FILING DATE: 1999-05-14  
; PRIOR APPLICATION NUMBER: US 60/172,096  
; PRIOR FILING DATE: 1999-12-23  
; PRIOR APPLICATION NUMBER: PCT/US99/31274  
; PRIOR FILING DATE: 1999-12-30  
; PRIOR APPLICATION NUMBER: US 60/175,481  
; PRIOR FILING DATE: 2000-01-11  
; PRIOR APPLICATION NUMBER: PCT/US00/04341  
; PRIOR FILING DATE: 2000-02-18  
; PRIOR APPLICATION NUMBER: PCT/US00/05841  
; PRIOR FILING DATE: 2000-03-02  
; PRIOR APPLICATION NUMBER: US 60/191,007  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: PCT/US00/07532  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: PCT/US00/15264  
; PRIOR FILING DATE: 2000-06-02  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 39  
; SEQ ID NO 18  
; LENGTH: 728  
; TYPE: PRT  
; ORGANISM: Homo Sapien  
US-11-311-555-18

Query Match 68.1%; Score 32; DB 10; Length 728;  
Best Local Similarity 71.4%; Pred. No. 1.8e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 NTGLYNL 9  
|:|||||:  
Db 26 NSGLYNI 32

## RESULT 35

US-11-311-561-18  
; Sequence 18, Application US/11311561  
; Publication No. US2006008917A1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Chen, Jian  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Li, Hanzhong  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Vanlookeren, Menno  
; APPLICANT: Vandlen, Richard  
; APPLICANT: Watanabe, Colin  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William  
; APPLICANT: Yansura, Daniel  
; TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF  
; FILE REFERENCE: P1381R1C1P1 (US)  
; CURRENT FILING DATE: 2005-12-20  
; PRIOR APPLICATION NUMBER: US/09/747,259  
; PRIOR FILING DATE: 2000-12-20  
; PRIOR APPLICATION NUMBER: US 09/311,832  
; PRIOR FILING DATE: 1999-05-14  
; PRIOR APPLICATION NUMBER: US 60/172,096  
; PRIOR FILING DATE: 1999-12-23  
; PRIOR APPLICATION NUMBER: PCT/US99/31274  
; PRIOR FILING DATE: 1999-12-30  
; PRIOR APPLICATION NUMBER: US 60/175,481  
; PRIOR FILING DATE: 2000-01-11  
; PRIOR APPLICATION NUMBER: PCT/US00/04341  
; PRIOR FILING DATE: 2000-02-18  
; PRIOR APPLICATION NUMBER: PCT/US00/05841  
; PRIOR FILING DATE: 2000-03-02  
; PRIOR APPLICATION NUMBER: US 60/191,007  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: PCT/US00/07532  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: PCT/US00/15264  
; PRIOR FILING DATE: 2000-06-02  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 39  
; SEQ ID NO 18  
; LENGTH: 728  
; TYPE: PRT  
; ORGANISM: Homo Sapien  
US-11-311-561-18

Query Match 68.1%; Score 32; DB 10; Length 728;  
Best Local Similarity 71.4%; Pred. No. 1.8e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 NTGLYNL 9  
|:|||||:  
Db 26 NSGLYNI 32

## RESULT 36

US-11-072-512-3399  
; Sequence 3399, Application US/11072512  
; Publication No. US2006002945A1  
; GENERAL INFORMATION:  
; APPLICANT: ISOGAL, TAKAO  
; APPLICANT: SUGIYAMA, TOMOYASU  
; APPLICANT: OTSUKI, TETSUJI  
; APPLICANT: WAKAMATSU, AI  
; APPLICANT: SATO, HIROYUKI

```

; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HTO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: Patent Ver. 2.1
; SEQ ID NO 3399
; LENGTH: 728
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-11-072-512-3399

Query Match      68.1%; Score 32; DB 11; Length 728;
Best Local Similarity 71.4%; Pred. No. 1.8e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      3 NTGGLYNL 9
DB      39 NSGLYNI 45

RESULT 37
US-10-963-439-5
; Sequence 5, Application US/10963439
; Publication No. US20060079444A1
; GENERAL INFORMATION:
; APPLICANT: Ron. Dina
; TITLE OF INVENTION: HUMAN SER ISOPFORMS AND METHODS OF USING SAME FOR CANCER GENE
; FILE REFERENCE: 28385
; CURRENT APPLICATION NUMBER: US/10/963,439
; CURRENT FILING DATE: 2004-10-11
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: Patent version 3.3
; SEQ ID NO 5
; LENGTH: 739
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-963-439-5

Query Match      68.1%; Score 32; DB 9; Length 739;
Best Local Similarity 71.4%; Pred. No. 1.8e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      3 NTGGLYNL 9
DB      50 NSGLYNI 56

RESULT 38
US-11-152-974A-318
; Sequence 318, Application US/11152974A
; Publication No. US20060051395A1
; GENERAL INFORMATION:
; APPLICANT: Wayne F. Beyer, Jr.
; APPLICANT: Robin Hyde-DeRuysecher
```

```

; APPLICANT: Paul T. Hamilton
; APPLICANT: Ray Edward Benson
; TITLE OF INVENTION: IFMbs to Promote the Specific Attachment of Target Analyses to the
; FILE REFERENCE: AFP006
; CURRENT APPLICATION NUMBER: US/11/152,974A
; CURRENT FILING DATE: 2005-06-15
; PRIOR APPLICATION NUMBER: 60/580,019
; PRIOR FILING DATE: 2004-06-16
; PRIOR APPLICATION NUMBER: 60/651,338
; PRIOR FILING DATE: 2005-02-09
; PRIOR APPLICATION NUMBER: 60/651,747
; PRIOR FILING DATE: 2005-02-10
; NUMBER OF SEQ ID NOS: 558
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 318
; LENGTH: 13
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Isolated from phage display libraries
; US-11-153-143A-318

Query Match      66.0%; Score 31; DB 11; Length 13;
Best Local Similarity 62.5%; Pred. No. 3.8;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1 LTNWGLYN 8
DB      1 LTNWGLYN 8

RESULT 39
US-11-153-143A-318
; Sequence 318, Application US/11153143A
; Publication No. US20060051396A1
; GENERAL INFORMATION:
; APPLICANT: Paul T. Hamilton
; APPLICANT: Mark W. Grinstaff
; APPLICANT: Daniel J. Kenan
; APPLICANT: Dale J. Christensen
; TITLE OF INVENTION: Bifunctional Coatings
; FILE REFERENCE: AFP005
; CURRENT APPLICATION NUMBER: US/11/153,143A
; CURRENT FILING DATE: 2005-06-15
; PRIOR APPLICATION NUMBER: 60/580,019
; PRIOR FILING DATE: 2004-06-16
; PRIOR APPLICATION NUMBER: 60/651,338
; PRIOR FILING DATE: 2005-02-09
; PRIOR APPLICATION NUMBER: 60/651,747
; PRIOR FILING DATE: 2005-02-10
; NUMBER OF SEQ ID NOS: 558
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 318
; LENGTH: 13
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Isolated from phage display libraries
; US-11-153-143A-318

Query Match      66.0%; Score 31; DB 11; Length 13;
Best Local Similarity 62.5%; Pred. No. 3.8;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1 LTNWGLYN 8
DB      1 LTNWGLYN 8

RESULT 40
US-10-793-626-2192
; Sequence 2192, Application US/10793626
```

```
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMBERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; PRIOR FILING DATE: 2004-03-04
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2192
; LENGTH: 286
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
US-10-793-626-2192

Query Match
Best Local Similarity 66.0%; Score 31; DB 9; Length 286;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LNTGTGLYNL 9
Db 132 LTKTGLY 138

RESULT 41
US-11-079-463-6223
; Sequence 6223, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRAC
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 6223
; LENGTH: 367
; TYPE: PRT
; ORGANISM: B. fragilis
US-11-079-463-6223

Query Match
Best Local Similarity 66.0%; Score 31; DB 11; Length 367;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 LNTGTGLYNL 9
Db 273 LTYSGRYNL 281

RESULT 42
US-11-188-298-13458
; Sequence 13458, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
```

```
; SEQ ID NO 13458
; LENGTH: 431
; TYPE: PRT
; ORGANISM: Chloroflexus aurantiacus
US-11-188-298-13458

Query Match
Best Local Similarity 66.0%; Score 31; DB 11; Length 431;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 3 NTGLYNL 9
Db 65 NSGLYLV 71

RESULT 43
US-11-079-463-5684
; Sequence 5684, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRAC
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 5684
; LENGTH: 472
; TYPE: PRT
; ORGANISM: B. fragilis
US-11-079-463-5684

Query Match
Best Local Similarity 66.0%; Score 31; DB 11; Length 472;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 LNTGTGLYNL 9
Db 347 LTKTILYNL 355

RESULT 44
US-11-045-004-173
; Sequence 173, Application US/11045004
; Publication No. US20060078901A1
; GENERAL INFORMATION:
; APPLICANT: BUCHRIESER, CARMEN
; APPLICANT: FRANGEUL, LIONEL
; APPLICANT: COUVE, ELISABETH
; APPLICANT: RUSNIOK, CHRISTOPHE
; APPLICANT: ESILH, HAFIDA
; APPLICANT: DEHOIX, PIERRE
; APPLICANT: DUSSURET, OLIVIER
; APPLICANT: CHETOUNI, FARID
; APPLICANT: NEJARI, HAFED
; APPLICANT: GLASER, PHILIPPE
; APPLICANT: KUNST, FRANCK
; APPLICANT: COSSART, PASCALE
; APPLICANT: DANIELS, JUSTIN
; APPLICANT: GOEBEL, WERNER
; APPLICANT: KREFT, JURGEN
; APPLICANT: KUNH, MICHAEL
; APPLICANT: NG, EVA
; APPLICANT: VAZQUEZ-BOLAND, ANTONIO
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
; APPLICANT: GARRIDO-GARCIA, PATRICIA
; APPLICANT: TIERREZ-MARTINEZ, ALBERTO
; APPLICANT: AMEND, ALEXANDRA
```

APPLICANT: CHAKRABORTY, TRINAD  
APPLICANT: DOMANN, EUGEN  
APPLICANT: HAIN, THORSTEN  
APPLICANT: BERCHE, PATRICK  
APPLICANT: CHARBIT, ALAIN  
APPLICANT: DURANT, LIONEL  
APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO  
APPLICANT: BAQUERO, FERNANDO  
APPLICANT: GARCIA DEL PORTILLO, FRANCISCO  
APPLICANT: GOMEZ-LOPEZ, NURIA  
APPLICANT: MADUENZO, ENCARNIA  
APPLICANT: PABLOS, BETRIZ DE  
APPLICANT: WEHLAND, JURGEN  
APPLICANT: KARST, UWE  
APPLICANT: ENTIAN, KARL-DIETER  
APPLICANT: HAUP, JORG  
APPLICANT: ROSE, MATTHIAS  
APPLICANT: VOS, HAMUT  
TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES  
FILE REFERENCE: 05394.0018-02  
CURRENT APPLICATION NUMBER: US/11/045,004  
CURRENT FILING DATE: 2005-01-28  
PRIOR APPLICATION NUMBER: 10/637,657  
PRIOR FILING DATE: 2003-08-11  
PRIOR APPLICATION NUMBER: 10/257,023  
PRIOR FILING DATE: 2002-10-08  
PRIOR APPLICATION NUMBER: PCT/FR01/01118  
PRIOR FILING DATE: 2001-04-11  
PRIOR APPLICATION NUMBER: FR 00/04,629  
PRIOR FILING DATE: 2000-04-11  
NUMBER OF SEQ ID NOS: 2854  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 173  
LENGTH: 504  
TYPE: PRT  
ORGANISM: Listeria monocytogenes  
US-11-045-004-173

Query Match  
Best Local Similarity 66.0%; Score 31; DB 11; Length 504;  
Pred. No. 1.9e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 TWTGLYNL 9  
DB 179 SGTGLYNI 186

RESULT 45  
US-11-087-099-3289  
Sequence 3289, Application US/11087099  
Publication No. US20060041961A1  
GENERAL INFORMATION:  
APPLICANT: Adad, Mark S. et al.  
TITLE OF INVENTION: Genes and Uses for Plant Improvement  
FILE REFERENCE: 38-21(53450)B EP  
CURRENT APPLICATION NUMBER: US/11/087,099  
CURRENT FILING DATE: 2005-03-22  
NUMBER OF SEQ ID NOS: 12464  
SEQ ID NO 3289  
LENGTH: 744  
TYPE: PRT  
ORGANISM: Saccharomyces cerevisiae  
US-11-087-099-3289

Query Match  
Best Local Similarity 66.0%; Score 31; DB 11; Length 744;  
Pred. No. 2.9e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTNWGLY 7  
DB 188 LTNWGLY 194

RESULT 46  
US-10-523-477-14  
Sequence 14, Application US/10523477  
Publication No. US20050266406A1  
GENERAL INFORMATION:  
APPLICANT: EXELIXIS, INC.  
TITLE OF INVENTION: MAXS AS MODIFIERS OF THE AXIN PATHWAY AND METHODS OF USE  
FILE REFERENCE: EX03-051C-US  
CURRENT APPLICATION NUMBER: US/10/523,477  
CURRENT FILING DATE: 2005-02-04  
PRIOR APPLICATION NUMBER: US 60/401,534  
PRIOR FILING DATE: 2002-08-07  
PRIOR APPLICATION NUMBER: US 60/411,153  
PRIOR FILING DATE: 2002-09-16  
NUMBER OF SEQ ID NOS: 14  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO 14  
LENGTH: 948  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-523-477-14

Query Match  
Best Local Similarity 66.0%; Score 31; DB 9; Length 948;  
Pred. No. 3.7e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTNWGLY 7  
DB 36 LTNWGLY 42

RESULT 47  
US-10-503-683-185  
Sequence 185, Application US/10503683  
Publication No. US20060078880A1  
GENERAL INFORMATION:  
APPLICANT: Barbas, Carlos F., III  
TITLE OF INVENTION: ZINC FINGER LIBRARIES  
FILE REFERENCE: 8098-009-US  
CURRENT APPLICATION NUMBER: US/10/503,683  
CURRENT FILING DATE: 2004-08-03  
PRIOR APPLICATION NUMBER: PCT/US03/03705  
PRIOR FILING DATE: 2003-02-07  
PRIOR APPLICATION NUMBER: US 60/354,981  
PRIOR FILING DATE: 2002-02-07  
NUMBER OF SEQ ID NOS: 221  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 185  
LENGTH: 8  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Synthesized  
US-10-503-683-185

Query Match  
Best Local Similarity 63.8%; Score 30; DB 9; Length 8;  
Pred. No. 1.9e+05;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 TWTGLYN 8  
DB 2 TWTGLKN 8

RESULT 48  
US-10-530-061-1684  
Sequence 1684, Application US/1053061  
Publication No. US20060079453A1  
GENERAL INFORMATION:  
APPLICANT: SIDNEY, JOHN  
APPLICANT: SOUTHWOOD, SCOTT  
APPLICANT: SETTE, ALESSANDRO

;; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
;; FILE REFERENCE: 2060.033US02/EKS/M-M  
;; CURRENT APPLICATION NUMBER: US/10/530.061  
;; CURRENT FILING DATE: 2005-04-04  
;; PRIOR APPLICATION NUMBER: PCT/US03/31308  
;; PRIOR FILING DATE: 2003-10-03  
;; PRIOR APPLICATION NUMBER: 60/416,207  
;; PRIOR FILING DATE: 2002-10-03  
;; PRIOR APPLICATION NUMBER: 60/417,269  
;; PRIOR FILING DATE: 2002-10-08  
;; NUMBER OF SEQ ID NOS: 2503  
;; SOFTWARE: PatentIn version 3.3  
;; SEQ ID NO: 1684  
;; LENGTH: 15  
;; TYPE: PRT  
;; ORGANISM: Human papillomavirus  
US-10-530-061-1684

Query Match 63.8%; Score 30; DB 9; Length 15;  
Best Local Similarity 85.7%; Pred. No. 7;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 NTNGLYNL 9  
|||  
1 NTNGLYNL 7

RESULT 49  
US-10-311-822-6

;; Sequence 6, Application US/10311822  
;; Publication No. US20060052591A1  
;; GENERAL INFORMATION:  
;; APPLICANT: HYSEQ, INC.  
;; APPLICANT: BOYLE, BRYAN J  
;; APPLICANT: KOO, CHIAUYUN  
;; APPLICANT: ARTERBURN, MATTHEW C  
;; APPLICANT: TANG, Y. TOM  
;; APPLICANT: LIU, CHENGHUA  
;; APPLICANT: DRMANAC, RADJOU T  
;; TITLE OF INVENTION: METHODS AND MATERIALS RELATING TO CARCINOEMBRYONIC ANTIGEN-LIKE  
;; FILE REFERENCE: 21272-026 (HYS-24)  
;; CURRENT APPLICATION NUMBER: US/10/311.822  
;; CURRENT FILING DATE: 2002-12-17  
;; PRIOR APPLICATION NUMBER: US 09/665,533  
;; PRIOR FILING DATE: 2000-09-19  
;; PRIOR APPLICATION NUMBER: US 09/491,404  
;; PRIOR FILING DATE: 2000-01-25  
;; NUMBER OF SEQ ID NOS: 12  
;; SOFTWARE: PatentIn version 3.0  
;; SEQ ID NO: 6  
;; LENGTH: 45  
;; TYPE: PRT  
;; ORGANISM: Homo sapiens  
US-10-311-822-6

Query Match 63.8%; Score 30; DB 9; Length 45;  
Best Local Similarity 66.7%; Pred. No. 23;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 LTNGLYNL 9  
|||  
33 LTNGLYNL 41

RESULT 50  
US-11-091-018-5  
;; Sequence 5, Application US/11091018  
;; Publication No. US20050287551A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Gietarsdotcitr, Solveig  
;; APPLICANT: Thorleifsson, Gudmar  
;; APPLICANT: Gulcher, Jeffrey R.

;; TITLE OF INVENTION: SUSCEPTIBILITY GENE FOR HUMAN STROKE;  
;; FILE REFERENCE: 2345.2010-016  
;; CURRENT APPLICATION NUMBER: US/11/091.018  
;; CURRENT FILING DATE: 2005-03-25  
;; PRIOR APPLICATION NUMBER: PCT/US03/29906  
;; PRIOR FILING DATE: 2003-09-25  
;; PRIOR APPLICATION NUMBER: 10/255,120  
;; PRIOR FILING DATE: 2002-09-25  
;; PRIOR APPLICATION NUMBER: 10/419,723  
;; PRIOR FILING DATE: 2003-04-18  
;; PRIOR APPLICATION NUMBER: 10/650,120  
;; PRIOR FILING DATE: 2003-08-27  
;; PRIOR APPLICATION NUMBER: 10/067,514  
;; PRIOR FILING DATE: 2002-02-04  
;; PRIOR APPLICATION NUMBER: 09/811,352  
;; PRIOR FILING DATE: 2001-03-19  
;; NUMBER OF SEQ ID NOS: 102  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO: 5  
;; LENGTH: 215  
;; TYPE: PRT  
;; ORGANISM: Homo sapiens  
US-11-091-018-5

Query Match 63.8%; Score 30; DB 11; Length 215;  
Best Local Similarity 85.7%; Pred. No. 1.2e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 TTNGLYN 8  
|||  
203 TTNGLYN 209

Search completed: May 5, 2006, 08:51:32  
Job time: 9.4 secs